January 15, 2009 (TRG No. 7115)

Mr. Luis Lodrigueza
ORANGE COUNTY HEALTH CARE AGENCY
ENVIRONMENTAL HEALTH
1241 E. Dyer Road Suite 120
Santa Ana, CA 92705-5611

THE REYNOLDS GROUP a California corporation

SITE:

FULLERTON BUSINESS PARK NORTH

(FORMER OCHCA #94IC29)

1551 EAST ORANGETHORPE AVENUE

FULLERTON, CALIFORNIA

SUBJECT:

REMEDIATION STATUS REPORT AND

VERIFICATION SAMPLING WORKPLAN

Dear Mr. Lodrigueza:

On behalf of Universal Molding Extrusion Company (the Client), The Reynolds Group (TRG) has been performing soil vapor extraction (SVE) remediation of chlorinated hydrocarbons, primarily tetrachloroethene (PCE) and trichloroethene (TCE), from subsurface soils at the subject Site (see Figure 1 – Site Location Map). Currently at the Site there are 14 double/triplenested Vapor Extraction Wells (VEW), four Passive Wells (PW) and 11 Temporary Soil Vapor Probes (see Figure 2 – Site Plot Plan with Well and Soil Vapor Probe Locations). TRG operated the SVE system continuously from start-up on January 4, 2008, through November 28, 2008, when the system was shut down.

This report provides a summary of the SVE operations and a workplan for verification sampling of the soil remediation at the Site.

BACKGROUND

During removal of two clarifiers at the Site in 1994 by Converse Consultants, concentrations of PCE and other constituents were detected in soil samples. Converse concluded, following further investigation, that PCE impacted soils existed primarily within the top 35 feet of soils in an estimated area of 1,200 square feet. Converse further stated that groundwater beneath the

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Site, estimated at 115 ft bgs had not been impacted (Converse 1995). Soil vapor extraction was

proposed by Converse to remediate the PCE impacted soils at the Site.

An SVE system operated at the Site from August to November 1995. Confirmation borings

performed in December 1995 showed a decrease in PCE concentrations as follows: 99% at 15 ft

bgs, 87% at 20 ft bgs, and 84% at 25 ft bgs. Based on those results, Converse recommended no

further action at the Site to the Orange County Health Care Agency (OCHCA). In a Case

Closure letter dated December 15, 1995, OCHCA confirmed completion of remedial action at

the Site.

On April 11, 2005, the Orange County Water District (OCWD) filed a lawsuit naming several

Potential Responsible Parties (PRPs), including the subject Site address, for contributing to a

regional VOC-impacted groundwater plume in the vicinity of the Site.

Also in 2005, shallow soils at the Former Johnson Controls Battery property adjoining north of

the subject Site at 1550 E. Kimberly Avenue, were discovered to be impacted with lead, arsenic,

VOCs, and petroleum hydrocarbons (ref. JCI Fullerton Corrective Measures Completion Report,

dated May 2007). Subsequent soil vapor extraction, soils excavation, and groundwater

monitoring were performed at the Johnson Controls property. The DTSC determined that

corrective action had been completed at the property for shallow and deep soils in letters May 22

and September 20, 2007, respectively.

In early 2007, TRG was contracted as the Consultant for the Fullerton Business Park Site. TRG

advanced 17 soil vapor probes at the Site in March 2007 and performed an environmental

screening on behalf of our Client prior to purchasing the subject Site. PCE and TCE were

detected at maximum soil vapor concentrations of 222.2 and 115.2 micrograms per liter (ug/L),

respectively, from five ft bgs. The fieldwork and results were detailed in TRG's "Results of Soil

Vapor Investigation" report, dated March 19, 2007.

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On July 24, 2007, TRG submitted a "Request for Remedial Action Supervision" to the Orange

County Health Care Agency (OCHCA) on behalf of our Client for review of the results, for

providing proper oversight, and for eventual regulatory closure. TRG met with Luis Lodrigueza

of OCHCA on July 24, 2007, to discuss the case and was directed to further assess the soil

vapors immediately beneath the concrete slab at the Site.

On July 30, 2007, five additional soil vapor points were sampled. Maximum concentrations of

1,079.4 ug/L PCE and 710.8 ug/L TCE were detected during the investigation. Details of the

work were provided in TRG's "Summary of Shallow Soil Vapor Survey and Interior Ceiling

Heights" report, dated August 9, 2007. Based on the data, OCHCA determined that health risk at

the Site ranges from 5.9E-0.5 to 7.9E-04. These values were considered orders of magnitude

higher than the allowable risk of one in a million (1.0E-0.6). Based on the July 2007 vapor

assessment, OCHCA requested further assessment in the warehouse to further define the lateral

extent of chlorinated solvent impact and to provide a basis for remediation action.

In accordance with OCHCA, TRG installed and sampled 12 temporary soil vapor probes (SV23

through SV35), six vapor extraction wells (VEW3 through VEW 6, VEW9, and VEW12), and

four passive wells (PMW1 through PMW4) from October 2007 through January 2008. On

February 22, 2008, TRG conducted an additional vapor sampling event to determine the

effectiveness of the SVE system. TRG collected 14 soil vapor samples from eight temporary soil

probes (SV26, SV27, SV29 through SV33 and VEW6). On February 25 and 27, 2008, TRG

installed eight additional soil vapor extraction wells (VEW7, VEW8, VEW10, VEW11, and

VEW13 through VEW16). The work was detailed in TRG's "Soil Vapor Survey and Additional

Vapor Well Installation Report", dated March 14, 2008. Well and probe details are summarized

in the attached Table 1 – Well Construction Detail Summary, and analytical results of the soil

vapor sampling are provided in the attached Table 2 – Summary of Soil Vapor Survey Sampling

Results.

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SUMMARY OF SYSTEM OPERATION

On January 4, 2008, the SVE was initiated at the Site from wells VEW3 through VEW 6,

VEW9, and VEW12. In February 2008, wells VEW7, VEW8, VEW10, VEW11, and VEW13

through VEW16 were connected to the remediation system. The SVE system consisted of a 300

cfm blower and two 1,000 lbs carbon filters in series. The wells were connected to the SVE

system through an above-ground system manifold and the system operated by extracting from a

different series of wells on rotational basis, focusing on hot zones to optimize the extraction and

maintain a good vacuum of influence. SVE was performed primarily from 15 and 25 ft bgs to

focus on vapors trapped directly beneath the concrete slab, thereby reducing the risk of vapor

intrusion.

Weekly system operation and maintenance visits were performed at the site which included

system maintenance, flow and vacuum readings, well extraction rotations, and soil vapor

sampling. Soil vapor samples from the SVE system inlet, carbon filters, and outlet were

collected and analyzed on a weekly basis in accordance with AQMD permit requirements.

Vapor samples from individual wells were collected and analyzed periodically to monitor

progress. Soil vapor operational data is provided in the attached Table 3 – Summary of

Operational Soil Vapor Sampling Results.

Other than occasional down-time for general maintenance and carbon filter change-out, the SVE

remediation system operated continuously until November 28, 2008, when the system was shut

down (see Table 4 - Summary of Operational Data and Mass Removal, and Appendix B -

System Operation Field Notes).

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A brief summary of operational detail is outlined below:

Date of SVE System Start Up:	January 4, 2008
Period Covered in this Report:	Jan. 4 through Nov. 28, 2008 (see Table 4)
Total System Running Time Since Start-Up:	7,305.5 hrs
Average Total Flow Rate @ Inlet:	161 cfm
Number of Vapor Extraction Wells:	14 at multiple depths (see Table 1)
Cumulative Pounds of PCE Removed:	49.48 lbs (see Table 4 and Figure 3)
Cumulative Pounds of TCE Removed:	6.57 lbs (see Table 4 and Figure 3)

Remediation Status

TRG shut down the SVE system on November 28, 2008. After 11 months of soil vapor extraction at the site, soil vapor PCE and TCE concentrations declined significantly at most locations beneath the Site building. Concentrations were reduced to a lesser degree in the northern SVE wells which are located near the Former Johnson Control's property, known to have released chlorinated compounds (including PCE and TCE) into the subsurface adjacent to the northeastern portion of the subject Site. Appendix C – "Soil Vapor Concentrations Over Time" shows the reduction in soil vapor concentrations from each individual well from SVE. Figures 5 through 10 attached to this report present the remediation progress at the Site, comparing the PCE concentrations before and after SVE remediation.

TRG believes that PCE and TCE concentrations in the subsurface have been remediated to low enough concentrations for low risk closure consideration. To ensure that residual concentrations are within closure criteria, TRG proposes to perform verification sampling at the site. A proposed Workplan for verification sampling follows.

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WORKPLAN FOR CLEANUP VERIFICATION SAMPLING

TRG proposes to sample VEW3 through VEW16 and SV33 at the wells screened from 2-5 ft

bgs, 12-15 ft bgs, and 22-25 ft bgs, and to install and sample six sub-slab soil vapor probes

(SV36 through SV41) to verify cleanup of the shallow subsurface soils (see Figure 11 – Site Plot

Plan with Proposed Verification Sampling Locations). Soil vapor samples collected from the 2-5

ft bgs wells and 1 ft bgs probes will be used for representative samples of sub-slab conditions at

the Site. The soil vapor survey will follow the February 7, 2005, updated DTSC "Interim Final –

Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" (the

"DTSC Guidance").

Specifically, the Scope of Work will include the following:

1. Follow the Health and Safety Plan that is attached to this workplan.

Install sub-slab soil vapor probes SV36 through SV41.

3. Collect shallow soil vapor samples in a syringe or clean summa canisters from

each vapor extraction well and probe location.

4. Immediately following sample collection, analyze vapor samples by a state-certified mobile laboratory by EPA Method 8260 full scan for VOCs. Ten percent (10%) of the soil vapor samples will also be analyzed by EPA Method TO-15 to screen for other potential chemicals of concern, such as vinyl chloride,

naphthalene and benzene.

5. Prepare a report signed by a California Registered Civil Engineer detailing field activities and results for OCHCA to perform an indoor human health risk analysis

and evaluate the Site for closure.

Temporary Sub-slab Soil Vapor Probes

Prior to performing fieldwork, TRG will contact underground service alert and consult with the

Site owner to identify any underground conduits or hazards. TRG will also obtain all any

necessary permits to complete the work.

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The temporary sub-slab soil vapor probes (SV36 through SV41) will be advanced to one ft bgs

beneath the building concrete slab in order to adequately assess soil vapor conditions at the Site,

while minimizing above grade ambient air influences. The temporary vapor probe points will be

advanced using a hand-held hammer drill with a disposable drive tip. Once the temporary vapor

probes reach the appropriate depth, a Nylaflow sample tube will be advanced inside the drive rod

to one ft bgs. The end of the Nylaflow tubing has a 1.5 inch long air stone filter which allows

soil vapor to enter the tubing while limiting the possibility of water or soil intrusion. The top of

the Nylaflow tube has a plastic valve to prevent ambient air intrusion. The Nylaflow tubing and

valves will be sealed at the surface with hydrated bentonite.

After temporary vapor probe placement, a period of at least 20 minutes will be allowed to pass

before sample collection. This equilibration time will allow subsurface conditions to equilibrate

prior to purge volume testing, leak testing, and soil vapor sampling.

Sample Collection

Based on previous fieldwork at the Site, seven purge volumes produced the highest vapor sample

concentrations and, thus, this purge volume will be applied to the verification sampling event.

Due to the large casing diameter, a 100 to 200 mL/min extraction rate from the soil vapor

extraction wells is not feasible and, therefore, as with previous sampling events, a 5 L/min

extraction rate will be applied to all sample locations, except SV33 and SV36 through SV41,

where a 200 mL/min extraction rate will be used.

Leak Testing

Leak testing will be conducted at every sample location. A tracer compound such as 1,1-

difluoroethane will be released at the ambient ground surface and analyzed in the soil vapor

sample. A detection of the tracer compound in the subsurface soil vapor sample will indicate

that ambient air intrusion occurred.

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Disposable Equipment and Decontamination Procedures

Non-reusable nylon sample tubing will be discarded between sample locations. After each use,

drive rods and other re-usable components will be properly decontaminated by a 3-stage wash

and rinse process including a non-phosphate detergent such as Liquinox and a final distilled

water rinse. Clean, dry tubing will be used for sampling at all times.

Laboratory Analyses.

All soil vapor samples will be collected and analyzed in the field by a state certified mobile

laboratory. Samples will be collected with glass syringes and analyzed on-Site by EPA Method

8260B full scan for VOCs. A detection limit of 0.1 ug/L as vapor for carcinogenic compounds

(PCE and TCE) and 1.0 ug/L as vapor for non-carcinogenic compounds will be used, as

specified in the DTSC Guidance.

Ten percent (10%) of the soil vapor samples will also be collected with Summa Canisters and

analyzed by EPA Method TO-15 to screen the samples for other chemicals of potential concern,

such as vinyl chloride, naphthalene, and benzene. The Summa samples will be transported to

Chemical and Environmental Laboratories of Santa Fe Springs, California, for EPA TO-15

analysis. Chemical and Environmental Laboratories is a state-certified laboratory. Chain-of

custody procedures will be followed in transporting samples to the onsite and offsite laboratories.

Waste Disposal

Any field generated wastes will be properly disposed in accordance with federal, state and local

requirements. TRG, however, does not anticipate any wastes to be generated from this work.

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Report on the Work

The results of the verification sampling fieldwork and analytical results will be put into a report

signed by a California Registered Civil Engineer that incorporates all of the requirements of your

agency. TRG requests that OCHCA evaluate the results for indoor human health risk analysis

and closure consideration.

Health and Safety Plan

All staff and third parties who will be near or around the project will be required to sign the

health and safety plan that has been prepared and is attached in Appendix D.

REGISTERED PROFESSIONAL STATEMENT

All work on this project is being performed under the responsible charge of a California

Registered Civil Engineer. The licensed professional whose wet ink signature and seal appears

at the end of this report will supervise all work associated with the project.

CORRESPONDENCES CONCERNING THIS PROJECT:

Please be sure that your mailing list includes The Reynolds Group and:

Dominique Baione

UNIVERSAL MOLDING EXTRUSION COMPANY

9151 East Imperial Highway Downey, CA 90242

and

Luis Lodrigueza, **OCHCA**Re: Remediation Status Report & Verification Sampling Workplan Fullerton Business Park North
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James R. McFadden GRUBB & ELLIS

500 North State College Suite 100 Orange, CA 92868

and

John C. Glaser
GLASER, TONSICH & ASSOCIATES, LLC

765 West 9th Street San Pedro, CA 90731

Should you have any questions regarding this report, please do not hesitate to contact our Project Manager for this Site, Alejandro Fuan, at (714) 920-9312 (cell) or via e-mail to fuan@reynolds-group.com. Thank you for your oversight of this work.

Sincerely,

THE REYNOLDS GROUP

a California corporation by:

F Edward Reynolds, Jr.

Qalifornia Registered Civil Engineer #38677

Alejandro Fuan Project Manager

Attachments:

Table 1 –	Well Construction Detail Summary
Table 2 –	Summary of Soil Vapor Survey Sampling Results
Table 3 –	Summary of Operational Soil Vapor Sampling Results
Table 4 –	Summary of Operational Data and Mass Removal
Figure 1 –	Site Location Map
Figure 2 –	Site Plot Plan with Well and Soil Vapor Probe Locations
Figure 3 –	Cumulative PCE & TCE Removed over Time
Figure 4 –	Inlet PCE & TCE Concentration over Time
Figure 5 –	Site Plot Plan with Pre-Remediation PCE Soil Vapor Concentration Contours at
	1 and 5 ft bgs.
Figure 6 –	Site Plot Plan with Post-Remediation PCE Soil Vapor Concentration Contours
	at 5 ft bgs.

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Figure 7 –	Site Plot Plan with Pre-Remediation PCE Soil Vapor Concentration Contours at 15 ft bgs.
Figure 8 –	Site Plot Plan with Post-Remediation PCE Soil Vapor Concentration Contours at 15 ft bgs.
Figure 9 –	Site Plot Plan with Pre-Remediation PCE Soil Vapor Concentration Contours at 25 ft bgs.
Figure 10 –	Site Plot Plan with Post-Remediation PCE Soil Vapor Concentration Contours at 25 ft bgs.
Figure 11 – Appendix A	Site Plot Plan with Proposed Verification Sampling Locations Laboratory Analytical Results
Appendix B	System Operation Field Notes
Appendix C	Graphs of Soil Vapor Concentrations over Time (VEW3 through VEW16)
Appendix D	Health and Safety Plan
cc:	Dominick Baione, UNIVERSAL MOLDING EXTRUSION COMPANY
	James McFadden, GRUBB & ELLIS John C. Glaser, GLASER, TONSICH & ASSOCIATES, LLC
	Joint C. Glaser, GLASEN, FORSICH & ASSOCIATES, LLC



TABLE 1 WELL CONSTRUCTION DETAIL SUMMARY 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
	VEW3-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW3	VEW3-15	Sched, 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW3-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW4-5	Sched, 40 PVC	2"	5 ft	2 ft - 5 ft
VEW4	VEW4-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW4-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW5-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
WEW.	VEW5-15	Sched, 40 PVC	2"	15 ft	12 ft - 15 ft
VEW5	VEW5-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW5-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft
	VEW6-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW6	VEW6-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW6-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW7	VEW7-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW/	VEW7-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
VEW8	VEW8-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
V E W O	VEW8-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW9-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW9	VEW9-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW9-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
VEW10	VEW10-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
V 12 VV 10	VEW10-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW11-5	Sched, 40 PVC	2"	5 ft	2 ft - 5 ft
VEW11	VEW11-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW11-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW12-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW12	VEW12-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
¥ 15 17 12	VEW12-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW12-60	Sched. 40 PVC	2"	60 ft	45 ft - 60 ft

TABLE 1 (Continued) WELL CONSTRUCTION DETAIL SUMMARY 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
	VEW13-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW13	VEW13-15	Sched, 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW13-25	Sched. 40 PVC	2"	25 ft	22 ft - 25 ft
	VEW14-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW14	VEW14-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW15-5	Sched, 40 PVC	2"	5 ft	2 ft - 5 ft
VEW15	VEW15-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW16-5	Sched. 40 PVC	2"	5 ft	2 ft - 5 ft
VEW16	VEW16-15	Sched. 40 PVC	2"	15 ft	12 ft - 15 ft
	VEW16-25	Sched, 40 PVC	2"	25 ft	22 ft - 25 ft
	PMW1-5	Nylaflow tubing	1/4"	5 ft	5 ft
D) (IV)	PMW1-15	Nylaflow tubing	1/4"	15 ft	15 ft
PMW1	PMW1-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW1-60	Nylaflow tubing	1/4"	60 ft	60 ft
	PMW2-5	Nylaflow tubing	1/4"	5 ft	5 ft
DMSW2	PMW2-15	Nylaflow tubing	1/4"	15 ft	15 ft
PMW2	PMW2-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW2-60	Nylaflow tubing	1/4"	60 ft	60 ft
	PMW3-5	Nylaflow tubing	1/4"	5 ft	5 ft
PMW3	PMW3-15	Nylaflow tubing	1/4"	15 ft	15 ft
PIVI W 3	PMW3-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW3-60	Nylaflow tubing	1/4"	60 ft	60 ft
_	PMW4-5	Nylaflow tubing	1/4"	5 ft	5 ft
PMW4	PMW4-15	Nylaflow tubing	1/4"	15 ft	15 ft
1101 00 -4	PMW4-25	Nylaflow tubing	1/4"	25 ft	25 ft
	PMW4-60	Nylaflow tubing	1/4"	60 ft	60 ft
SV23	SV23-5	Nylaflow tubing	1/4"	5 ft	5 ft
SV23	SV23-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV24	SV24-5	Nylaflow tubing	1/4"	5 ft	5 ft
5 7 24	SV24-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV25	SV25-5	Nylaflow tubing	1/4"	5 ft	5 ft
3 4 23	SV25-15	Nylaflow tubing	1/4"	15 ft	15 ft

TABLE 1 (Continued) WELL CONSTRUCTION DETAIL SUMMARY 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

Well Location	Well ID	Well Type	Casing Diameter	Casing Length	Screen Interval
SV26 -	SV26-5	Nylaflow tubing	1/4"	5 ft	5 ft
3 7 20	SV26-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV27	SV27-5	Nylaflow tubing	1/4"	5 ft	5 ft
3421	SV27-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV28	SV28-5	Nylaflow tubing	1/4"	5 ft	5 ft
3 7 2 0	SV28-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV29	SV29-5	Nylaflow tubing	1/4"	5 ft	5 ft
3 4 2 9	SV29-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV30	SV30-5	Nylaflow tubing	1/4"	5 ft	5 ft
3 7 30	SV30-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV31	SV31-5	Nylaflow tubing	1/4"	5 ft	5 ft
3431	SV31-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV32	SV32-5	Nylaflow tubing	1/4"	5 ft	5 ft
3 4 32	SV32-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV33	SV33-5	Nylaflow tubing	1/4"	5 ft	5 ft
	SV33-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV34	SV34-5	Nylaflow tubing	1/4"	5 ft	5 ft
S V 34	SV34-15	Nylaflow tubing	1/4"	15 ft	15 ft
SV35	SV35-5	Nylaflow tubing	1/4"	5 ft	5 ft
3 7 3 3	SV35-15	Nylaflow tubing	1/4"	15 ft	15 ft

TABLE 2 SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

(in micrograms per liter - ug/L)

	(in micrograms per liter - ug/L)					
Sample ID	Date Sampled	PCE	TCE	1,1-DCE		
SV1-5	3/9/2007	OS	69.9	17.4		
SV1-5 Dil.	3/9/2007	78.8	70.7	18.2		
SV2-5	3/9/2007	15.3	11	3.2		
SV3-5	3/9/2007	36.4	38.6	25.3		
SV4-5	3/9/2007	39.2	24.2	9.1		
SV5-5	3/9/2007	35.3	58.2	40.4		
SV6-5	3/9/2007	80.3	115.2	65.3		
SV7-5	3/9/2007	99.6	101.7	78.3		
SV8-5	3/9/2007	7.2	22.6	17.7		
SV9-5	3/9/2007	53.7	11.6	6		
SV10-5	3/9/2007	222.2	88.8	79.7		
SV11-5	3/9/2007	34.9	1.9	<1		
SV11-5 Dup	3/9/2007	32	1.8	<1		
SV12-5	3/9/2007	72.8	50.4	63.6		
SV13-5	3/9/2007	7.4	16.3	7.4		
SV14-5	3/9/2007	50.1	98.7	78.2		
SV15-5	3/9/2007	1.4	<1	54.4		
SV16-5	3/9/2007	<1	<1	<1		
SV17-5	3/9/2007	<1	<1	<1		
SV18 - €1′	7/30/2007	163.5	120.2	64.3		
SV19-81	7/30/2007	190.8	190.2	239.9		
SV20-54	7/30/2007	164.5	99.3	66,2		
SV21-	7/30/2007	×1 NA	N/3 15	SYNA		
SV22-5	7/30/2007	1,079.40	710.8	257.6		
SV22-5 Dup	7/30/2007	984.8	684.9	232.8		
SV23-81	7/30/2007	72,1	80.4	79.8		
SV24-5	2/18/2008		REFUSAL			
SV24-15	10/16/2007	120	32	30		
SV24-15	2/18/2008		REFUSAL			
SV25-5	10/16/2007	110	48	100		
SV25-5	2/18/2008		REFUSAL			
SV25-15	10/16/2007	180	100	250		
SV25-15	2/18/2008	REFUSAL				
SV26-5	2/18/2008		REFUSAL			
SV26-15	10/16/2007	11	2	14		
SV26-15	2/18/2008	2.2	1.1			
SV27-5	10/16/2007	66	50	88		
SV27-5	2/18/2008	5.1	3.1	<1		
SV27-15	10/16/2 <u>007</u>	74	68	140		
SV27-15	2/18/2008	10	2.5	<1		

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TABLE 2 (Continued) SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

(in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
SV28-5	10/16/2007	1.4	0.4	<0.5
SV29-5	10/16/2007	22	5.4	0.9
SV29-5 Dup	10/16/2007	23	5.2	0.8
SV29-5	2/18/2008	9.6	1.6	<1
SV29-15	10/16/2007	21	6.3	1
SV29-15	2/18/2008 - VIII8	13.3	2.9	<1
SV30-5	10/16/2007	53	71	61
SV30-5	2/18/2008	14.4	15.7	<1
SV30-15	10/16/2007	4.8	2.8	0.5
SV30-15	2/18/2008	21.7	15.7	6.5
SV31-5	10/16/2007	1.5	2	0.6
SV31-5	2/18/2008		REFUSAL	
SV31-15	10/16/2007	16	44	53
SV31-15 Dup	10/16/2007	13	41	53
SV31-15	2/18/2008	11.9	23.4	9
SV32-5	10/16/2007	11	38	73
SV32-5	2/18/2008	2	7.2	<1
SV32-15	10/16/2007	11	32	49
SV32-15	2/18/2008	2.3	10.5	9.4
SV32-15 Dup	2/18/2008	2.3	12.4	10.3
SV33-5	10/16/2007	25	47	55
SV33-5	2/18/2008	1	<1	<1
SV33-15	10/16/2007	54	90	140
SV33-15	2/18/2008	6.7	15.9	<1
SV34-15	10/16/2007	92	110	460
SV34-15	10/16/2007	93	72	140
VEW3-5	10/25/2007	24	29	6.6
VEW3-15	10/25/2007	240	140	74
VEW3-25	10/25/2007	210	120	83
VEW4-5	11/14/2007	21	17	1.7
VEW4-15	11/14/2007	380	150	86
VEW4-15 Dup	11/14/2007	360	140	73
VEW4-25	11/14/2007	470	180	160
VEW5-5	10/25/2007	23	13	3,8
VEW5-5	10/30/2007	12	8.2	3.1
VEW5-15	10/25/2007	19	14	6
VEW5-15	10/30/2007	19	13	7.8

TABLE 2 (Continued) SUMMARY OF SOIL VAPOR SURVEY SAMPLING RESULTS 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA (in micrograms per liter - ug/L)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VEW5-25	10/25/2007	12	8.7	13
VEW5-25 Dup	10/25/2007	4.2	3.2	4.9
VEW5-25	10/30/2007	16	17	11
VEW5-60	10/25/2007	170	550	170
VEW5-60	10/30/2007	140	570	150
VEW6-5	11/14/2007	3.7	3.1	<0.5
VEW6-5	2/18/2008	7.3	14.6	<1
VEW6-15	11/14/2007	110	110	17
VEW6-15	2/18/2008	8.2	12.4	<1
VEW6-25	10/30/2007	8.5	9.1	2.5
VEW6-25	11/14/2007	320	370	250
VEW9-5	10/25/2007	39	43	42
VEW9-15	10/25/2007	89	130	170
VEW9-25	10/25/2007	64	69	61
VEW12-5	10/25/2007	30	64	120
VEW12-15	10/25/2007	3.1	8.2	9.8
VEW12-25	10/25/2007	56	110	210
VEW12-60	10/25/2007	10	43	9
PW1-5	11/14/2007	31	6.1	1.1
PW1-15	11/14/2007	21	1.5	<0.5
PW1-25	11/14/2007	4,200	140	55
PW1-60	11/14/2007	70	220	39
PW2-5	12/18/2007	2	8.9	2.5
PW2-5 Dup	12/18/2007	1.5	7.2	2.5
PW2-15	12/17/2007	1.5	7.4	3.1
PW2-15	12/18/2007	6.2	12	6.2
PW2-25	12/18/2007	37	19	20
PW2-60	12/10/2007	75	370	100
PW2-60	12/18/2007	75	370	100
PW3-5	12/10/2007	3.8	1.7	0.6
PW3-5 Dup	12/10/2007	4.3	1.7	0.7
PW3-15	12/10/2007	1.4	1	1.9
PW3-25	12/10/2007	17	2.2	1.6
PW3-60	12/10/2007	<0.1	<0.1	<0.5
PW4-5	12/18/2007	3.8	1.7	0.6
PW4-5 Dup	12/18/2007	4.3	1.7	0.7
PW4-15	12/18/2007	1.4	1	1.9
PW4-25	12/18/2007	17	2.2	1.6
PW4-60	12/18/2007	<0.1	< 0.1	< 0.5

TABLE 3

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS
1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA
(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
VPW2 5	2/14/08	10.73	2.23	1.26
VEW3-5	10/31/08	5.45	0.30	< 0.05
VEW 15	2/14/08	69.83	18.04	18.40
VEW3-15	11/10/08	11.13	2.57	1.66
VEW2 25	8/4/08	10.24	1.53	1.74
VEW3-25	11/10/08	9.06	2.98	3.56
VEW4-5	2/14/08	0.74	<1	<1
VEW4-15	2/14/08	2.35	<1	<1
VEW4-13	11/19/08	0.38	<0.05	< 0.05
VENIA 25	8/4/08	2.47	0.26	< 0.05
VEW4-25	11/10/08	0.72	0.09	< 0.05
VEW5-5	2/14/08	<1	<1	<1
VEW5-15	2/14/08	<1	<1	<1
LIDIUS OF	8/4/08	0.19	< 0.05	< 0.05
VEW5-25	10/21/08	0.23	< 0.05	< 0.05
VEW5-60	11/10/08	3.81	27.75	17.72
VEW6-5	2/14/08	0.74	<1	<1
	2/14/08	2.21	2.79	2.52
VEW6-15	11/10/08	0.48	0.12	< 0.05
	8/4/08	2.10	0.22	< 0.05
VEW6-25	11/10/08	0.14	0.25	< 0.05
	4/2/08	3.74	2.95	0.82
	5/5/08	2.65	0.62	< 0.01
VEW7-15	6/12/08	2.04	0.20	< 0.01
	9/2/08	0.10	0.38	< 0.05
	10/6/08	0.21	< 0.05	< 0.05
	4/2/08	2.02	2.44	0.99
	5/5/08	2.69	0.87	< 0.01
1 151110 15	6/12/08	4.40	0.81	< 0.01
VEW8-15	9/2/08	0.25	1.79	< 0.05
	10/6/08	2.03	0.21	< 0.05
	11/19/08	0.43	<0.05	<0.05
VEW9-5	2/14/08	<1	<1	<1
VEWO 16	2/14/08	0.88	1.86	1.26
VEW9-15	11/10/08	0.80	0.10	<0.05
VEW9-25	8/4/08	0.15	<0.05	< 0.05
VEW10-5	11/4/08	<0.05	< 0.05	< 0.05
	4/2/08	0.22	<0.01	< 0.01
VEW10 16	5/5/08	< 0.01	<0.01	< 0.01
VEW10-15	6/12/08	<0.01	< 0.01	< 0.01
	8/4/08	<0.05	< 0.05	< 0.05
VEW11-15	11/10/08	<0.05	<0.05	<0.05

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
	4/2/08	0.14	0.56	<0.01
VEW11-25	5/5/08	<0.01	0.32	<0.01
7 E 11 23	6/12/08	<0.01	<0.01	<0.01
	9/2/08	0.17	0.25	<0.05
VEW12-5	2/14/08	2.65	3.91	1.51
	11/4/08	<0.05_	< 0.05	<0.05
VEW12-15	2/14/08	<1	<1	<1
VEW12-25	8/4/08	0.39	0.36	<0.05
VEW12-60	11/10/08	2.75	21.49	10.1
VEW13-5	11/4/08	<0.05	<0.05	<0.05
	4/2/08	1.96	5.91	2.75
	5/5/08	0.75	2.26	1.65
VEW13-25	6/12/08	0.63	1.67	0.95
	9/2/08	0.99	2.69	1.26
VEW14-5	9/2/08	0.18	<0.05	<0.05
	4/2/08	0.61	1.08	<0.01
VEW14-15	5/5/08	0.23	0.27	<0.01
VEW 14-15	6/12/08	0.24	0.34	<0.01
	4/2/08	0.98	1.31	<0.01
	5/5/08	0.70	0.87	<0.01
VEW15-15	6/12/08	0.75	0.88	<0.01
	9/2/08	0.45	0.67	<0.05
	11/10/08	0.33	0.60	<0.05
VEW16-15	11/10/08	0.77	0.59	<0.05
	4/2/08	1.00	0.16	<0.01
VENUE 25	5/5/08	0.28	0.61	<0.01
VEW16-25	6/2/08	0.69	0.17	<0.01
	9/2/08 10/21/08	0.86	0.92	<0.05
	1/4/08	18.23		<0.05
	1/11/08	10.14	10.42 3.16	15.12
	1/17/08	8.38	1.86	1.51
	1/21/08	6.32	1.30	<1
	1/30/08	5.29	1.49	<1 <1
	2/5/08	3.09	<1	
	2/14/08	2.94	0.93	<1
Inlet	3/7/08	0.91	1.13	0.76
	3/11/08	0.65	1.09	0.69
	3/20/08	0.65	0.97	<0.01
	3/27/08	0.36	0.38	<0.01
	4/2/08	0.91	1.54	0.55
	4/10/08	0.96	0.88	<0.01
	4/15/08	0.92	0.39	<0.01

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA (parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE
	4/25/08	1.15	0.67	< 0.01
	5/5/08	1.14	0.27	< 0.01
	5/14/08	0.92	0.22	< 0.01
	5/19/08	0.81	0.45	< 0.01
	5/27/08	0.98	0.31	< 0.01
	6/2/08	1.41	0.73	< 0.01
	6/12/08	1.10	0.28	< 0.01
	6/19/08	0.88	0.38	< 0.01
	6/23/08	0.76	< 0.01	< 0.01
	7/8/08	0.72	< 0.01	< 0.01
	7/17/08	0.36	< 0.05	< 0.05
	8/4/08	0.49	< 0.05	< 0.05
	8/11/08	1.75	0.47	< 0.05
Inlot (cont'd)	8/18/08	0.14	< 0.05	< 0.05
Inlet (cont'd)	8/25/08	0.47	< 0.05	<0.05
	9/2/08	0.72	0.46	< 0.05
	9/11/08	0.91	< 0.05	<0.05
	9/19/08	0.11	< 0.05	< 0.05
	9/23/08	0.28	< 0.05	<0.05
	9/30/08	1.12	0.56	< 0.05
	10/6/08	0.86	0.41	< 0.05
	10/13/08	0.27	0.19	< 0.05
	10/15/08	<u>1</u> .16	< 0.05	< 0.05
	10/21/08	0.57	0.86	< 0.05
	10/31/08	1.87	0.30	< 0.05
	11/4/08	< 0.05	<0.05	<0.05
	11/10/08	0.15	0.26	< 0.05
	11/19/08	0.40	< 0.05	< 0.05
	1/4/08	<1	<1	<1
	1/11/08	<1	<1	<1
	1/17/08	<1	0.93	<1
	1/21/08	<1	<1	<1
	1/30/08	<1	<1	<1
	2/5/08	<1	<1	<1
	2/14/08	<u> </u>	<1	<1
	3/7/08	0.51	0.98	1.11
Outlet	3/11/08	<1	<1	0.51
	3/20/08	<0.01	<0.01	<0.01
	3/27/08	<0.01	<0.01	< 0.01
	4/2/08	<0.01	< 0.01	<0.01
	4/10/08	<0.01	<0.01	<0.01
	4/15/08	<0.01	<0.01	<0.01
	4/25/08	< 0.01	<0.01	<0.01
	5/5/08	<0.01	<0.01	<0.01
	5/14/08	<0.01	<0.01	<0.01

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

(parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE		
	5/19/08	<0.01	<0.01	<0.01		
	5/27/08	< 0.01	<0.01	<0.01		
	6/2/08	<0.01	<0.01	<0.01		
	6/12/08	<0.01	< 0.01	< 0.01		
	6/19/08	<0.01	<0.01	<0.01		
	6/23/08	<0.01	<0.01	<0.01		
	7/8/08	<0.01	<0.01	<u><0.</u> 01		
	7/17/08	<0.05	<0.05	<0.05_		
	8/4/08	< 0.05	<0.05	< 0.05		
	8/11/08	<0.05		< 0.05		
	8/18/08	<0.05	< 0.05	< 0.05		
	8/25/08	<0.05	< 0.05	< 0.05		
Outlet (cont'd)	9/2/08	< 0.05	<0.05	<0.05		
	9/11/08	< 0.05	<0.05	<0.05		
	9/19/08	<0.05	< 0.05	< 0.05		
	9/23/08	< 0.05	<0.05	< 0.05		
	9/30/08	<0.05	< 0.05	< 0.05		
	10/6/08	0.34	< 0.05	< 0.05		
	10/13/08	< 0.05	< 0.05	< 0.05		
	10/15/08	< 0.05	<0.05	< 0.05		
	10/21/08	< 0.05	< 0.05	< 0.05		
	10/31/08	< 0.05	< 0.05	<0.05		
	11/4/08	<0.05	< 0.05	< 0.05		
	11/10/08	<0.05	< 0.05	< 0.05		
	11/19/08	< 0.05	< 0.05	< 0.05		
	1/4/08	14.55	10.23	14.87		
	1/11/08	Not sampled.				
	1/17/08	<1	<1	<1		
	1/21/08					
	1/30/08	<1	<1	<1		
	2/5/08	<1	<1	<1		
	2/14/08	<1	<1	<1		
	3/7/08	<1	<1	1.44		
	3/11/08	<1	<1	0.98		
	3/20/08	<0.01	< 0.01	<0.01		
Mid	3/27/08	<0.01	<0.01	< 0.01		
	4/2/08	< 0.01	<0.01	0.69		
	4/10/08	<0.01	<0.01	< 0.01		
	4/15/08	< 0.01	< 0.01	<0.01		
	4/25/08	<0.01	< 0.01	<0.01		
	5/5/08	<0.01	<0.01	<0.01		
	5/14/08	<0.01	<0.01	<0.01		
	5/19/08	<0.01	<0.01	<0.01		
	5/27/08	<0.01	<0.01	< 0.01		
	6/2/08	<0.01	<0.01	< 0.01		
	6/12/08	<0.01	<0.01	< 0.01		

SUMMARY OF OPERATIONAL SOIL VAPOR SAMPLING RESULTS 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA (parts per million by volume - ppmv)

Sample ID	Date Sampled	PCE	TCE	1,1-DCE	
	6/19/08	< 0.01	< 0.01	< 0.01	
	6/23/08	< 0.01	< 0.01	< 0.01	
	7/8/08	< 0.01	<0.01	<0.01	
	7/17/08	< 0.05	< 0.05	< 0.05	
	8/4/08	0.54	0.39	< 0.05	
	8/11/08	<0.05	< 0.05	< 0.05	
	8/18/08	<0.05	0.32	< 0.05	
	8/25/08	<0.05	0.39	< 0.05	
	9/2/08	0.08	0.08 0.55		
	9/11/08	< 0.05	< 0.05	< 0.05	
Mid (cont'd)	9/19/08	< 0.05	< 0.05	< 0.05	
	9/23/08	< 0.05	< 0.05	< 0.05	
	9/30/08	< 0.05	< 0.05	< 0.05	
	10/6/08	< 0.05	< 0.05	< 0.05	
1	10/13/08	< 0.05	< 0.05	< 0.05	
	10/15/08	< 0.05	< 0.05	< 0.05	
	10/21/08	< 0.05	< 0.05	< 0.05	
	10/31/08	<0.05	< 0.05	< 0.05	
	11/4/08	< 0.05	< 0.05	< 0.05	
	1/10/08	< 0.05	<0.05	<0.05	
	11/19/08	< 0.05	<0.05	<0.05	

Notes:

- Samples collected from 1/4/08 through 2/14/08 were reported in mg/L by the laboratory and converted to ppmv.
- Samples collected from 3/7/08 through 7/8/08 were reported in ug/L by the laboratory and converted to ppmv.

TABLE 4

SUMMARY OF OPERATIONAL DATA AND MASS REMOVAL 1551 EAST ORANGETHORPE AVENUE, FULLERTON, CA

		Sample Concentration						Mass Removed		
Sample ID	Date Sampled	PCE	PCE	TCE	TCE	Pipe Dia.	Flow Rate	Cumulative Time	Cumulative PCE	Cumulative TCE
	-	ppmv	ug/L	ppmv	ug/L	inches	cfm	hrs	lbs	lbs
Inlet	1/4/2008	17.971	124	10.182	56	4	88.6	0.0	0.00	0.00
Inlet	1/11/2008	10.000	69	3.091	17	4	133.5	161.8	5.57	0.69
Inlet	1/17/2008	8.261	57	1.818	10	4	222.2	308.1	12.50	1.29
Inlet	1/21/2008	6.232	43	1.273	7	4	247.2	401.1	16.19	1.59
Inlet	1/30/2008	5.217	36	1.455	8	4	185.7	619	21.64	2.20
Inlet	2/5/2008	3.043	21	<rl< td=""><td><rl< td=""><td>4</td><td>269.3</td><td>761</td><td>24.64</td><td>2.20</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>269.3</td><td>761</td><td>24.64</td><td>2.20</td></rl<>	4	269.3	761	24.64	2.20
Inlet	2/14/2008	2.899	20	0.909	5	4	306.8	977.1	29.60	2.82
Inlet	3/7/2008	0.893	6.16	1.105	6.08	4	330.2	1201.9	31.31	3.66
Inlet	3/11/2008	0.642	4.43	1.069	5.88	4	157.3	1298.3	31.56	3.83
Inlet	3/20/2008	0.638	4.40	0.953	5.24	4	130.1	1515.3	32.02	4.11
Inlet	3/27/2008	0.358	2.47	0.375	2.06	4	162.0	1681.2	32.27	4.21
Inlet	4/2/2008	0.900	6.21	1.504	8.27	4	162.0	1823.6	32.80	4.57
Inlet	4/10/2008	0.951	6.56	0.864	4.75	4	121.4	2018.2	33.38	4.78
Inlet	4/15/2008	0.907	6.26	0.385	2.12	4	158.6	2137.9	33.83	4.85
Inlet	4/25/2008	1.132	7.81	0.651	3.58	4	132.9	2371.8	34.73	5.06
Inlet	5/5/2008	1.120	7.73	0.267	1.47	4	160.5	2493.1	35.30	5.11
Inlet	5/14/2008	0.909	6.27	0.211	1.16	4	150.4	2707.9	36.05	5.18
Inlet	5/19/2008	0.797	5.50	0.436	2.40	4	123.0	2828.6	36.36	5.25
Inlet	5/27/2008	0.965	6.66	0.385	2.12	4	123.0	3020.1	36.95	5.34
Inlet	6/2/2008	1.390	9.59	0.716	3.94	4	256.8	3163	38.26	5.61
Inlet	6/12/2008	1.084	7.48	0.278	1.53	4	225.0	3403.2	39.77	5.77
Inlet	6/19/2008	0.865	5.97	0.367	2.02	4	136.1	3569.6	40.28	5.85
Inlet	6/23/2008	0.762	5.26	<rl< td=""><td><rl< td=""><td>4</td><td>229.6</td><td>3667.3</td><td>40.72</td><td>5.85</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>229.6</td><td>3667.3</td><td>40.72</td><td>5.85</td></rl<>	4	229.6	3667.3	40.72	5.85
Inlet	7/3/2008	0.978	6.75	<rl< td=""><td><rl< td=""><td>4</td><td>225.2</td><td>3905.8</td><td>42.07</td><td>5.85</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>225.2</td><td>3905.8</td><td>42.07</td><td>5.85</td></rl<>	4	225.2	3905.8	42.07	5.85
Inlet	7/8/2008	0.710	4.90	<rl< td=""><td><rl< td=""><td>4</td><td>176.0</td><td>4027.1</td><td>42.46</td><td>5.85</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>176.0</td><td>4027.1</td><td>42.46</td><td>5.85</td></rl<>	4	176.0	4027.1	42.46	5.85
Inlet	7/17/2008	0.360	2.48	<rl< td=""><td><rl< td=""><td>4</td><td>172.2</td><td>4243.8</td><td>42.81</td><td>5.85</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>172.2</td><td>4243.8</td><td>42.81</td><td>5.85</td></rl<>	4	172.2	4243.8	42.81	5.85
Inlet	8/4/2008	0.490	3.38	<rl< td=""><td><rl< td=""><td>4</td><td>158.2</td><td>4677.2</td><td>43.68</td><td>5.85</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>158.2</td><td>4677.2</td><td>43.68</td><td>5.85</td></rl<>	4	158.2	4677.2	43.68	5.85
Inlet	8/11/2008	1.750	12.08	0.470	2.59	4	105.2	4844.7	44.47	5.94
Inlet	8/18/2008	0.140	0.97	<rl< td=""><td><rl< td=""><td>4</td><td>167.8</td><td>5014.1</td><td>44.58</td><td>5.94</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>167.8</td><td>5014.1</td><td>44.58</td><td>5.94</td></rl<>	4	167.8	5014.1	44.58	5.94
Inlet	8/25/2008	0.470	3.24	<rl< td=""><td><rl< td=""><td>4</td><td>153.0</td><td>5179.3</td><td>44.88</td><td>5.94</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>153.0</td><td>5179.3</td><td>44.88</td><td>5.94</td></rl<>	4	153.0	5179.3	44.88	5.94
Inlet	9/2/2008	0.720	4.97	0.420	2.31	4	190.2	5373.3	45.57	6.10
Inlet	9/11/2008	0.910	6.28	<rl< td=""><td><rl< td=""><td>4</td><td>111.2</td><td>5585.6</td><td>46.12</td><td>6.10</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>111.2</td><td>5585.6</td><td>46.12</td><td>6.10</td></rl<>	4	111.2	5585.6	46.12	6.10
Inlet	9/19/2008	0.110	0.76	<rl< td=""><td><rl< td=""><td>4</td><td>139.3</td><td>5778.1</td><td>46.20</td><td>6.10</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>139.3</td><td>5778.1</td><td>46.20</td><td>6.10</td></rl<>	4	139.3	5778.1	46.20	6.10
Inlet	9/23/2008	0.280	1.93	<rl< td=""><td><rl< td=""><td>4</td><td>136.6</td><td>5874.7</td><td>46.29</td><td>6.10</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>136.6</td><td>5874.7</td><td>46.29</td><td>6.10</td></rl<>	4	136.6	5874.7	46.29	6.10
Inlet	9/30/2008	1.120	7.73	0.560	3.08	4	106.4	6041.6	46.81	6.20
Inlet_	10/6/2008	0.860	5.93	0.410	2.26	4	143.1	6185	47.26	6.29
Inlet	10/13/2008	0.270	1.86	0.190	1.05	4	129.9	6354	47.41	6.33
Inlet_	10/15/2008	1.160	8.00	<rl< td=""><td><rl< td=""><td>4</td><td>129.9</td><td>6402</td><td>47.60</td><td>6.33</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>129.9</td><td>6402</td><td>47.60</td><td>6.33</td></rl<>	4	129.9	6402	47.60	6.33
Inlet	10/21/2008	0.570	3.93	0.860	4.73	4	106.6	6526.7	47.80	6.45
Inlet	10/30/2008	1.870	12.90	0.300	1.65	4	107.9	6784.6	49.14	6.53
Inlet	11/4/2008	<rl< td=""><td><rl< td=""><td><rl< td=""><td><rl< td=""><td>4</td><td>140.0</td><td>6881</td><td>49.14</td><td>6.53</td></rl<></td></rl<></td></rl<></td></rl<>	<rl< td=""><td><rl< td=""><td><rl< td=""><td>4</td><td>140.0</td><td>6881</td><td>49.14</td><td>6.53</td></rl<></td></rl<></td></rl<>	<rl< td=""><td><rl< td=""><td>4</td><td>140.0</td><td>6881</td><td>49.14</td><td>6.53</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>140.0</td><td>6881</td><td>49.14</td><td>6.53</td></rl<>	4	140.0	6881	49.14	6.53
Inlet	11/10/2008	0.150	1.04	0.260	1.43	4	105.1	7013.8	49.19	6.57
Inlet	11/19/2008	0.400	2.76	<rl< td=""><td><rl< td=""><td>4</td><td>87.6</td><td>7230.1</td><td>49.39</td><td>6.57</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>87.6</td><td>7230.1</td><td>49.39</td><td>6.57</td></rl<>	4	87.6	7230.1	49.39	6.57
Inlet	11/26/2008	0.400	2.76	<rl< td=""><td><rl< td=""><td>4</td><td>124.2</td><td>7256.1</td><td>49.42</td><td>6.57</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>124.2</td><td>7256.1</td><td>49.42</td><td>6.57</td></rl<>	4	124.2	7256.1	49.42	6.57
inlet	11/28/2008	0.400	2.76	<rl< td=""><td><rl< td=""><td>4</td><td>124.3</td><td>7305.5</td><td>49.48</td><td>6.57</td></rl<></td></rl<>	<rl< td=""><td>4</td><td>124.3</td><td>7305.5</td><td>49.48</td><td>6.57</td></rl<>	4	124.3	7305.5	49.48	6.57

Mass Removal Calculations

Example calculations:

PCE Concentration (ppmv) X conversion factor (ppmv \rightarrow mg/m³) = PCE Concentration (mg/m³)

Air Speed (ft/min)
$$X = \pi = X$$
 (Pipe radius (ft))² = Flow Rate (cfm)

$$Q_{cfm} X$$
 conversion factor $_{cfm \to m3/mm} = Q_{m3/mm}$
242 cfm X 0.0283168 (m³/ft³) = 6.85 m³/min

$$Q_{m3\text{-min}} X T = V_{ext}$$

6.85 m³/min X 6,240 min = 42,760 m³

Volume extracted (m³) X PCE Concentration (mg/m³) X conversion factor (mg
$$\rightarrow$$
 kg) = PCE removed (kg)

Mass Removal Calculations

1. Conversion from parts per million by Volume concentration (ppmv) to mg/m3

Contaminant Concentration (ppmv) X Conversion Factor (ppmv
$$\rightarrow$$
 mg/m³) = Contaminant concentration (mg/ m³)
 C_{ppmv} X $cf_{ppmv \rightarrow mg/m3}$ = $C_{mg/m3}$

Conversion from ppmv → mg/m³						
Compound	PCE	TCE	1,1 DCA			
Conversion factor	6.9	5.5	4.0			

2. Calculation of flow rate and conversion from cfm to in³/min

$$\begin{array}{cccc} \text{Air Speed (ft/min)} & X & \text{Cross sectional Area} = & \text{Flow Rate (cfm)} \\ V_{\text{air}} & X & A_{\text{pipe}} & = & Q_{\text{cfm}} \end{array}$$

Cross sectional area
$$(A_{pipe}) = \pi r^2 = \pi (r_{pipe})^2$$
 $r_{pipe} = pipe radius = 1.5 in = 0.125 ft$

Flow Rate (cfm or ft³/min)
$$X$$
 conversion factor (cfm \rightarrow m³/min) = Flow Rate (m³/min) Q_{cfm} X of $cfm\rightarrow m3/min$ = $Q_{m3/min}$

3. Calculation of Volume Extracted (m³) during operating period

Flow Rate (m³/min) X Time on system (min) = Volume extracted (m³)
$$Q_{m3/min}$$
 X T = V_{ext}

4. Amount of PCE removed (kg) and conversion from kg to lbs

Volume extracted (m
3
) X PCE Concentration (mg/m 3) X conversion factor (mg \rightarrow kg)

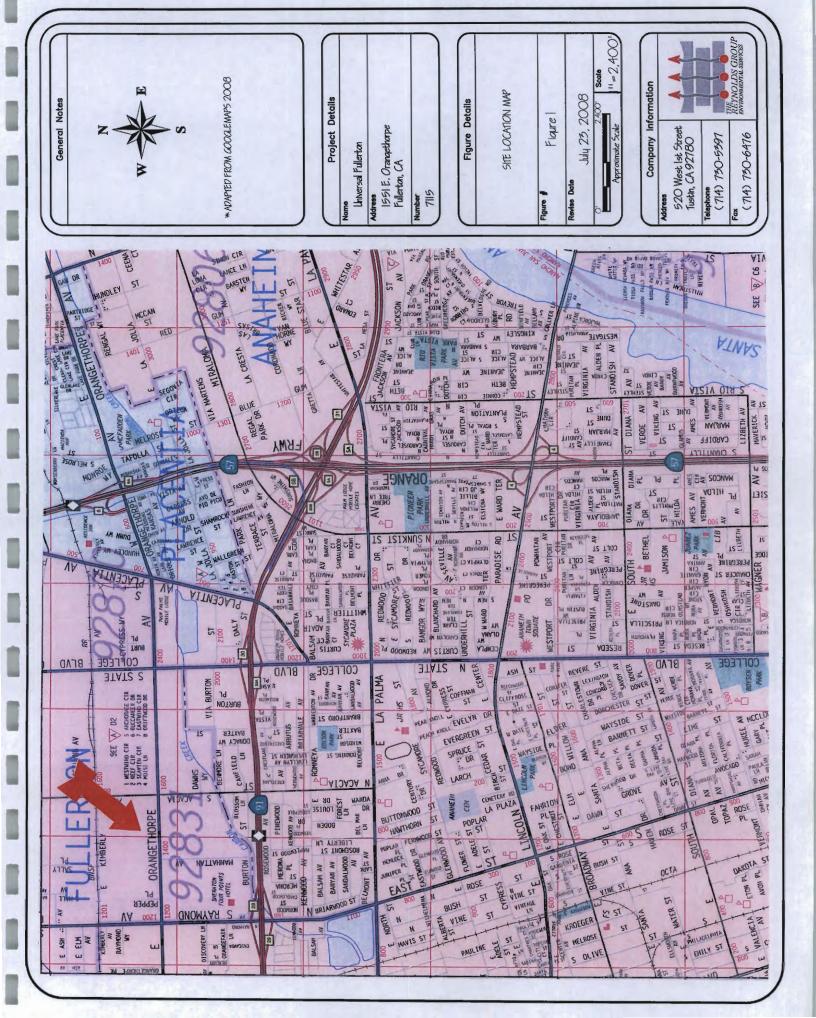
= PCE mass removed (kg)
$$V_{ext} = X \cdot C_{mg/m3} = X \cdot cf_{mg \rightarrow kg} = M_{kg}$$

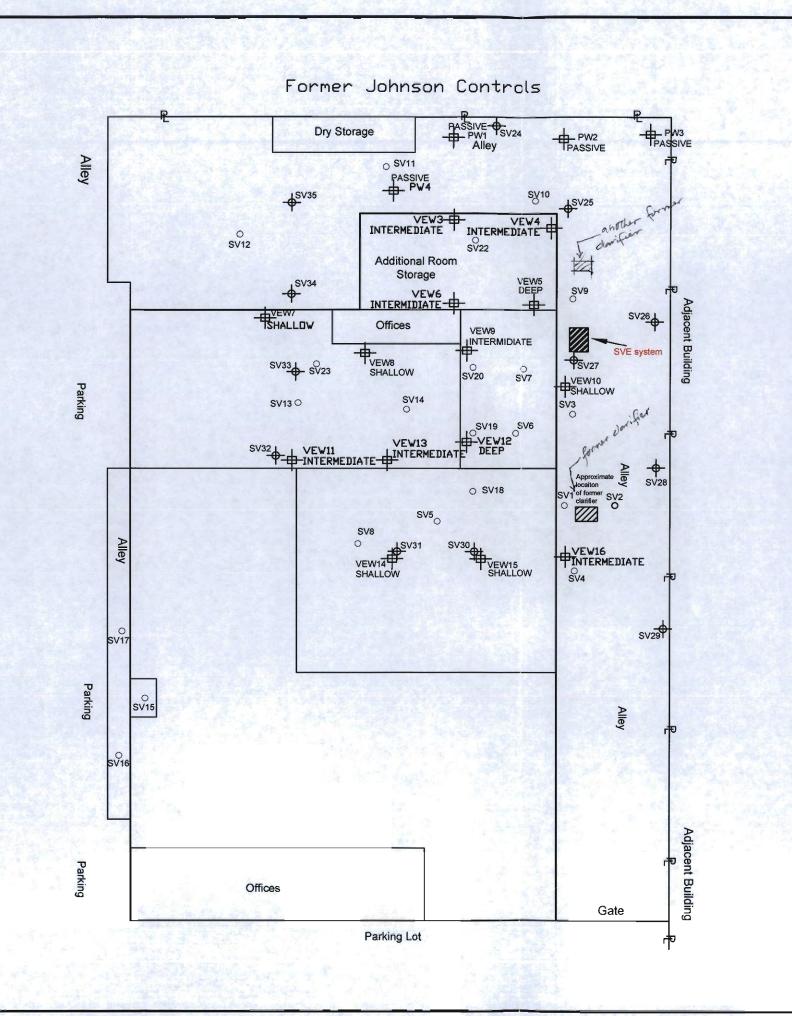
PCE mass removed (kg)
$$X$$
 Conversion factor (kg \rightarrow lbs) = PCE mass removed (lbs) M_{kg} X of $k_{g\rightarrow$ lbs M_{lbs}

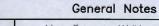
```
Mass Removal Calculations (continued)
Example calculations:
PCE Concentration (ppmv) X conversion factor (ppmv\rightarrow mg/m<sup>3</sup>) = PCE Concentration (mg/m<sup>3</sup>)
               C_{ppmv} X cf_{ppmv \to mg/m3} = C_{mg/m3}
2,369.13 ppmv X 4.42 (mg/m^3)/(ppmv) = 10,471.55 mg/m^3
Flow Rate (cfm) X conversion factor (cfm\rightarrow m<sup>3</sup>/min) = Flow Rate (m<sup>3</sup>/min)
      Flow Rate (m³/min) X Time on system (min) = Volume extracted (m³)
    Q_{m3/min} X T = V_{ext}
12.64 m³/min X 21,606 min = 273,155.29 m³
Volume extracted (m³) X PCE Concentration (mg/m³) X conversion factor (mg\rightarrow kg) = PCE removed (kg)
     PCE removed (kg) X Conversion factor (kg→ lbs) = PCE removed (lbs)
     M_{kg} X cf_{kg \to lbs} = M_{lbs}
2,860.36 kg X 2.205 (lbs)/(kg)
```

= 6,307.09 lbs Removed









Vapor Extracitor Well Localtor (Multi-depth
 well screened at 2 to 5 and 12 to 15)

-Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft has)

> Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bas)

> -Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

-Temporary Soil Vapor Probe Location

- Soil Gas Location

Project Details

Name

Universal Fullerton

Address

1551 E. Orangethorpe Ave. Fullerton, CA

Number

7115

Figure Details

SITE PLOT PLAN WITH WELL AND SOIL BORING LOCATIONS

Figure #

Figure 2

Revise Date

December 2008

Approximate Scale

111=60

Company Information

Address

520 West 1st Street Tustin, CA 92780

Telephone

(714) 730-5397

Fax

(714) 730-6476



Figure 3 - Cumulative PCE & TCE Removed over Time

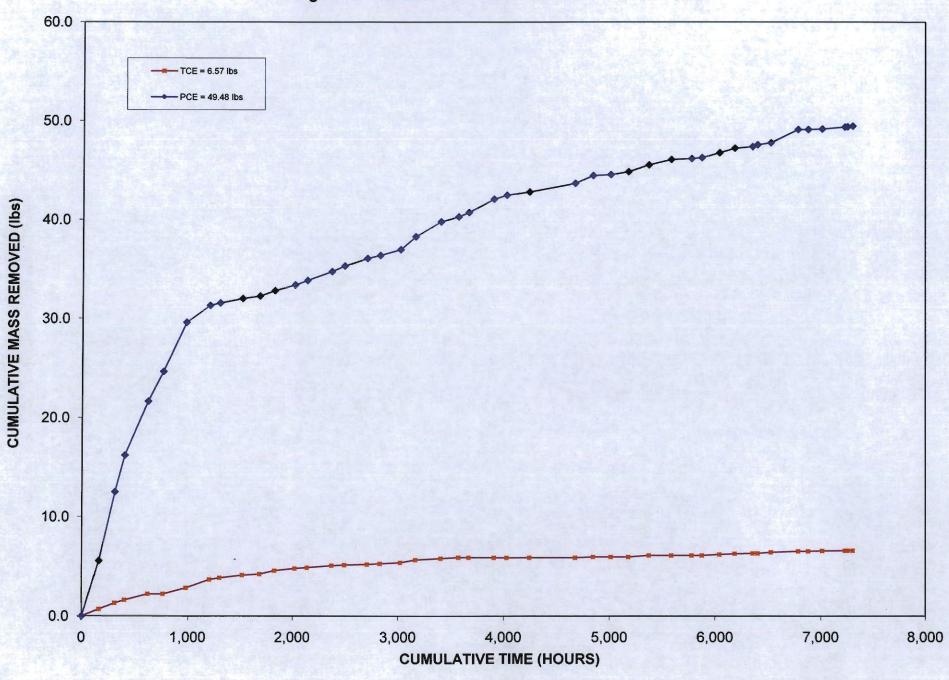
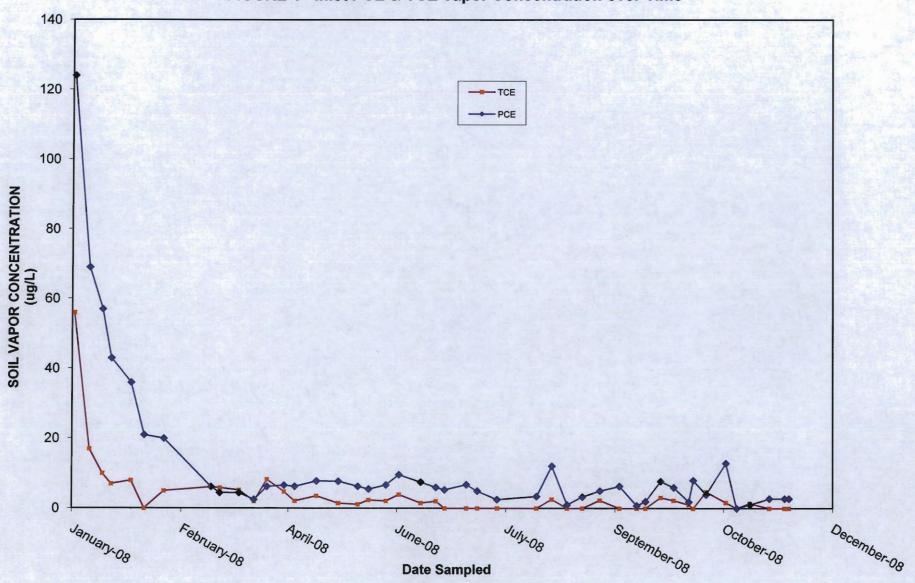
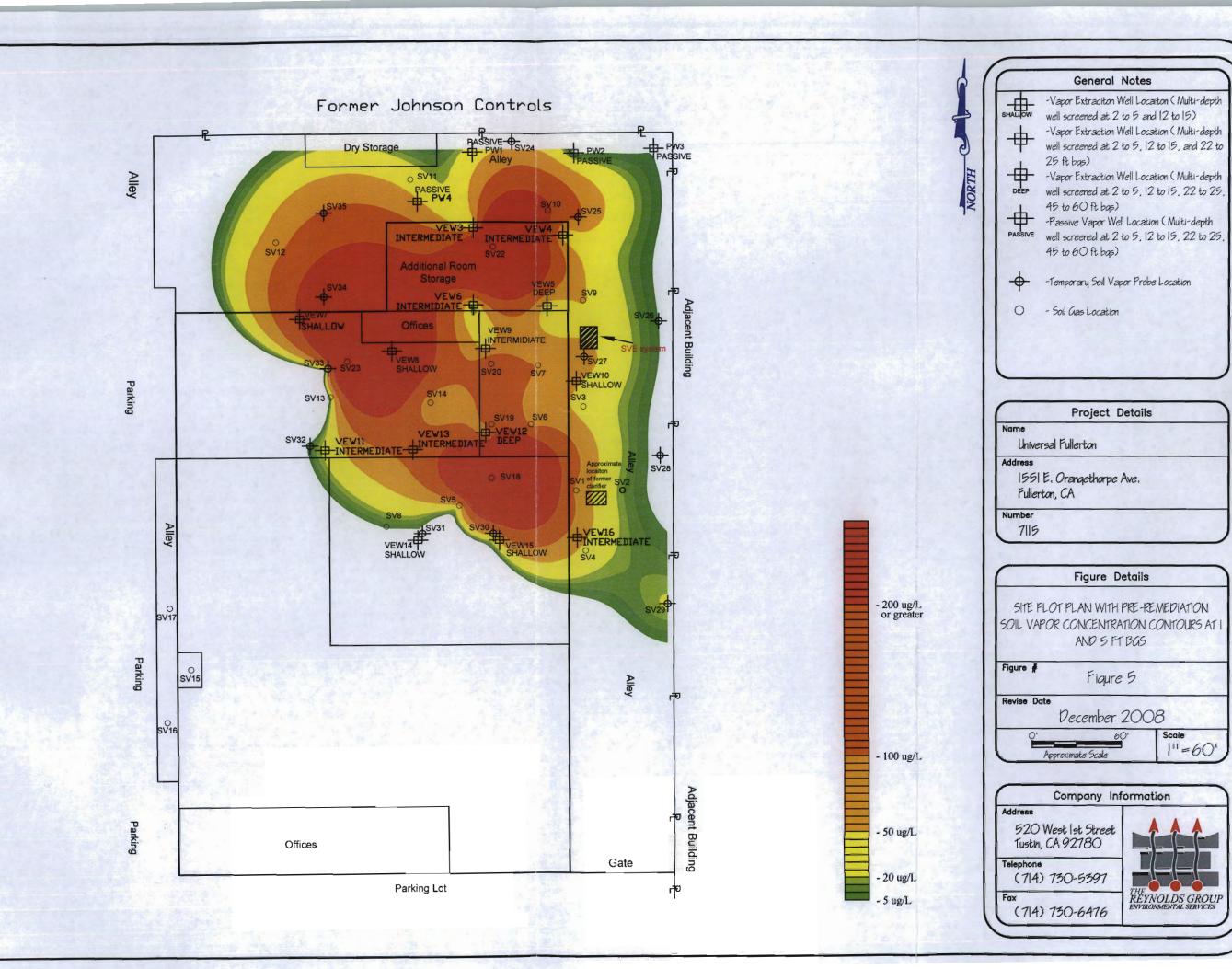
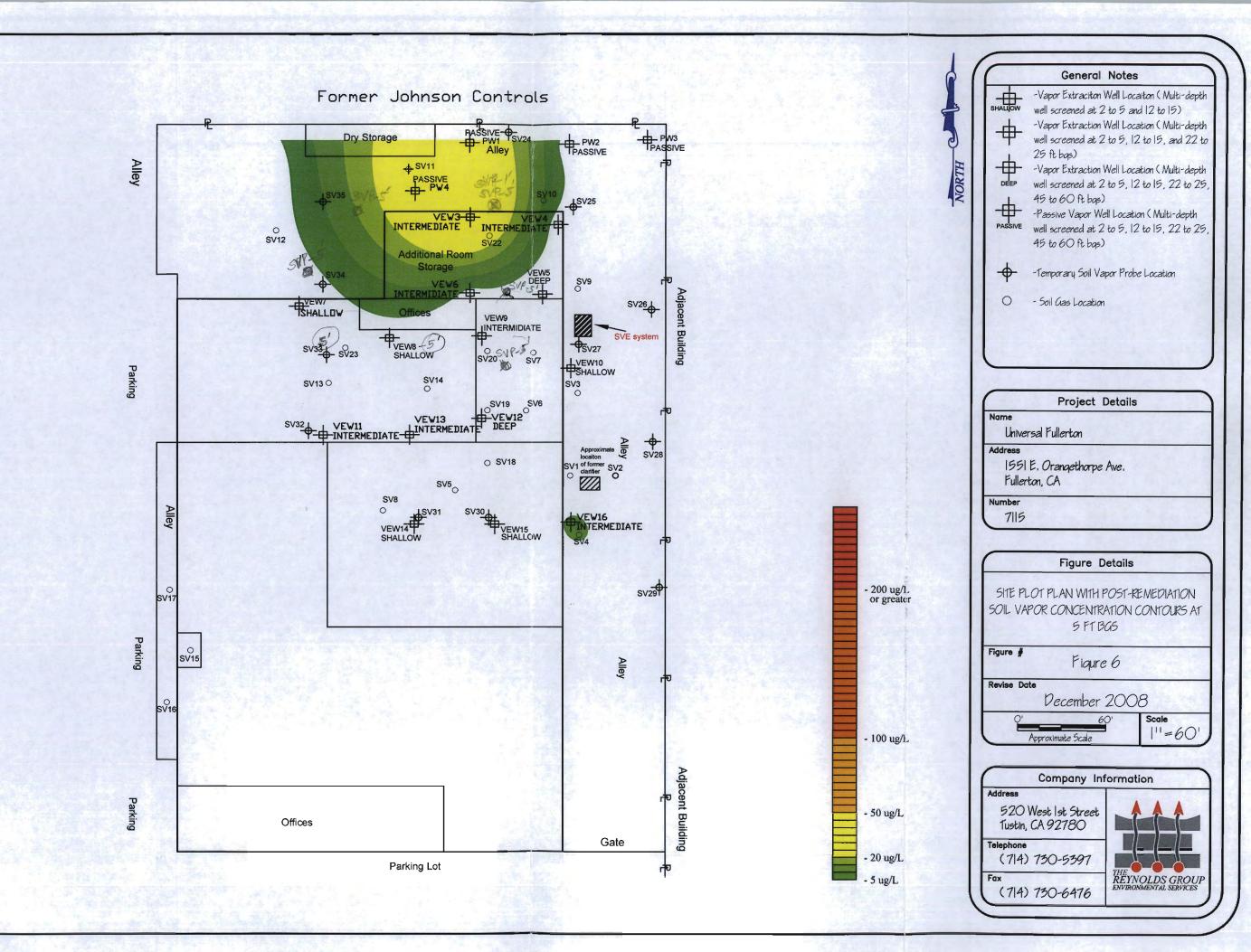
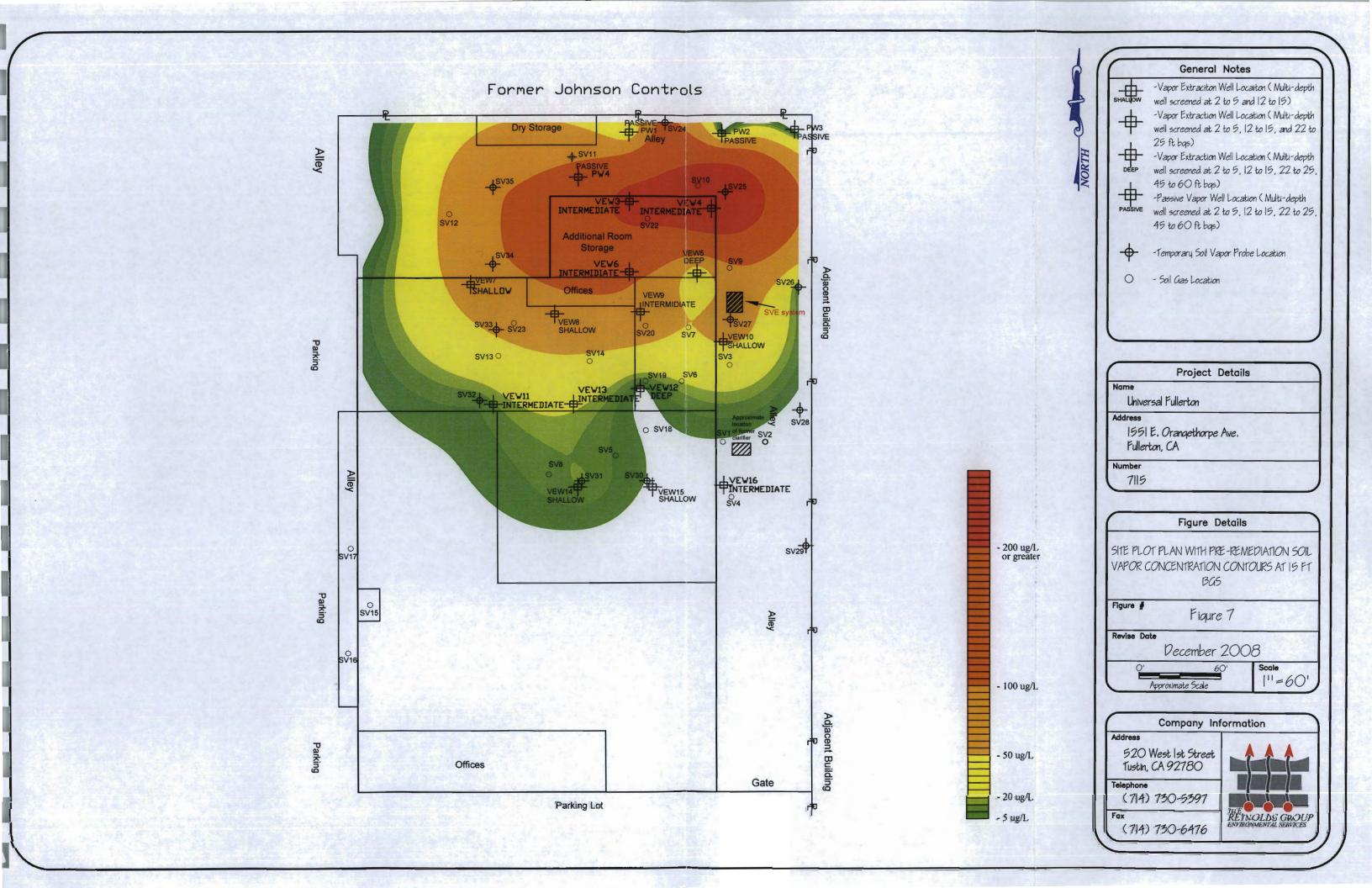


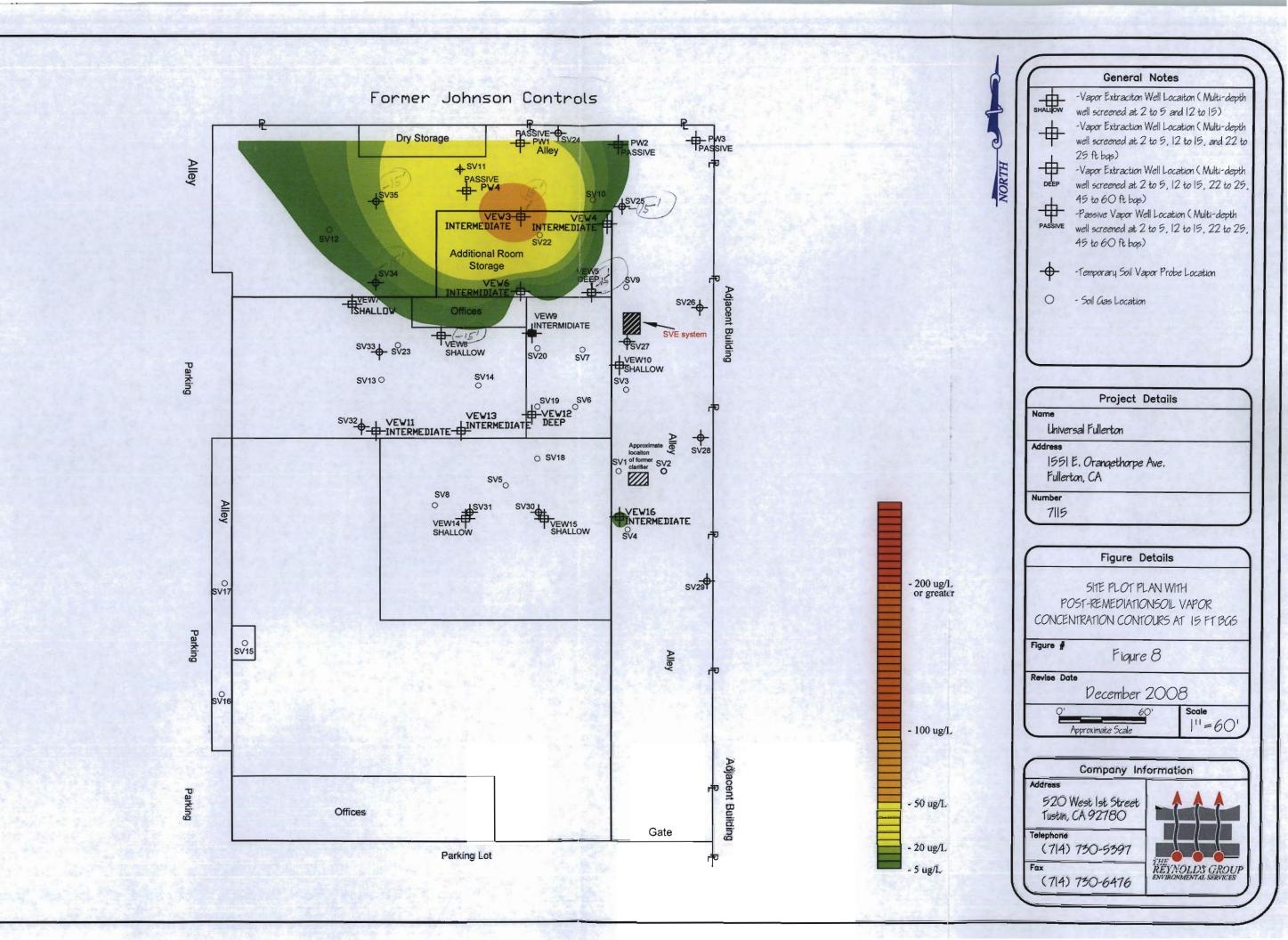
FIGURE 4 - Inlet PCE & TCE Vapor Concentration over Time

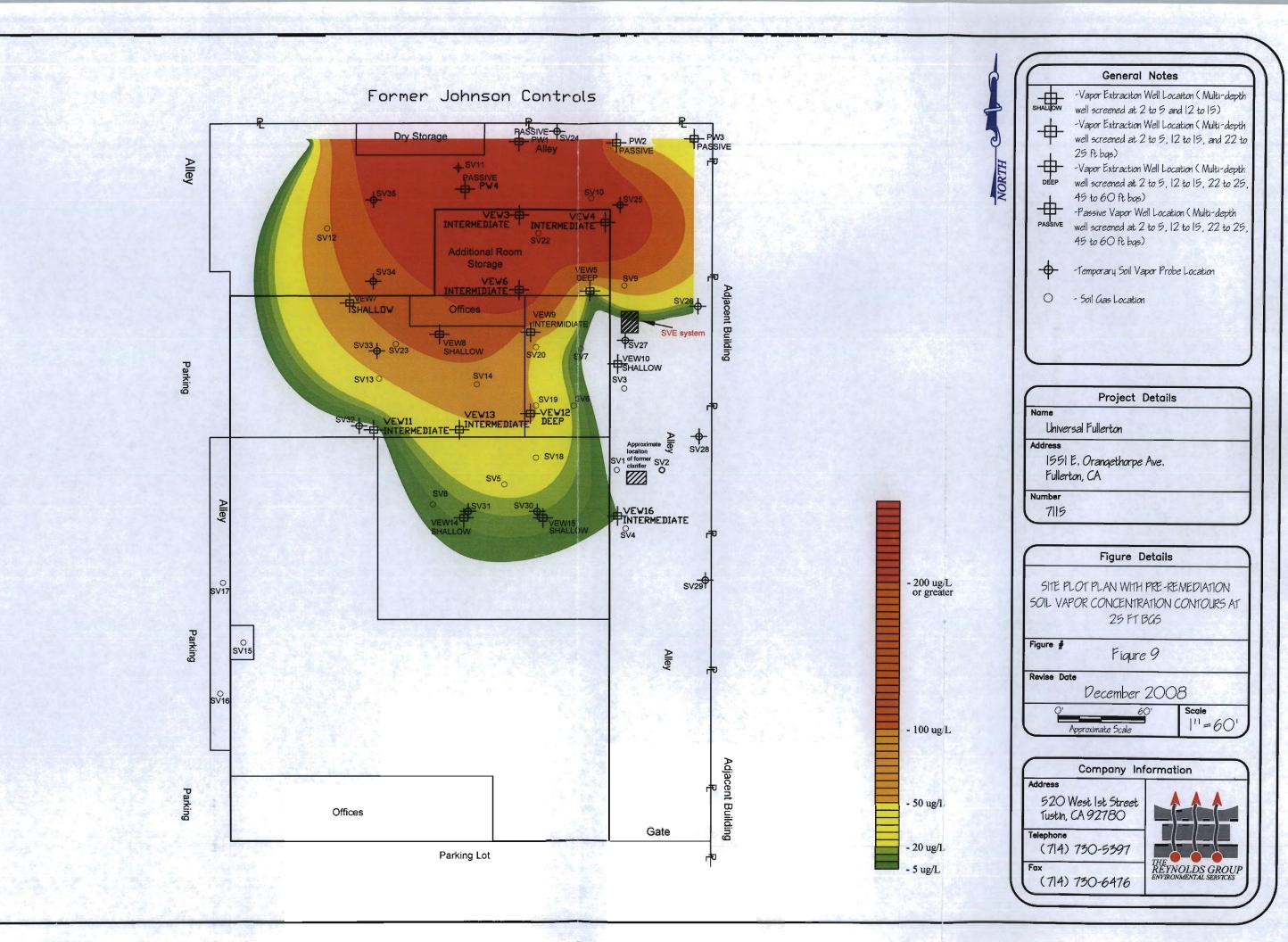


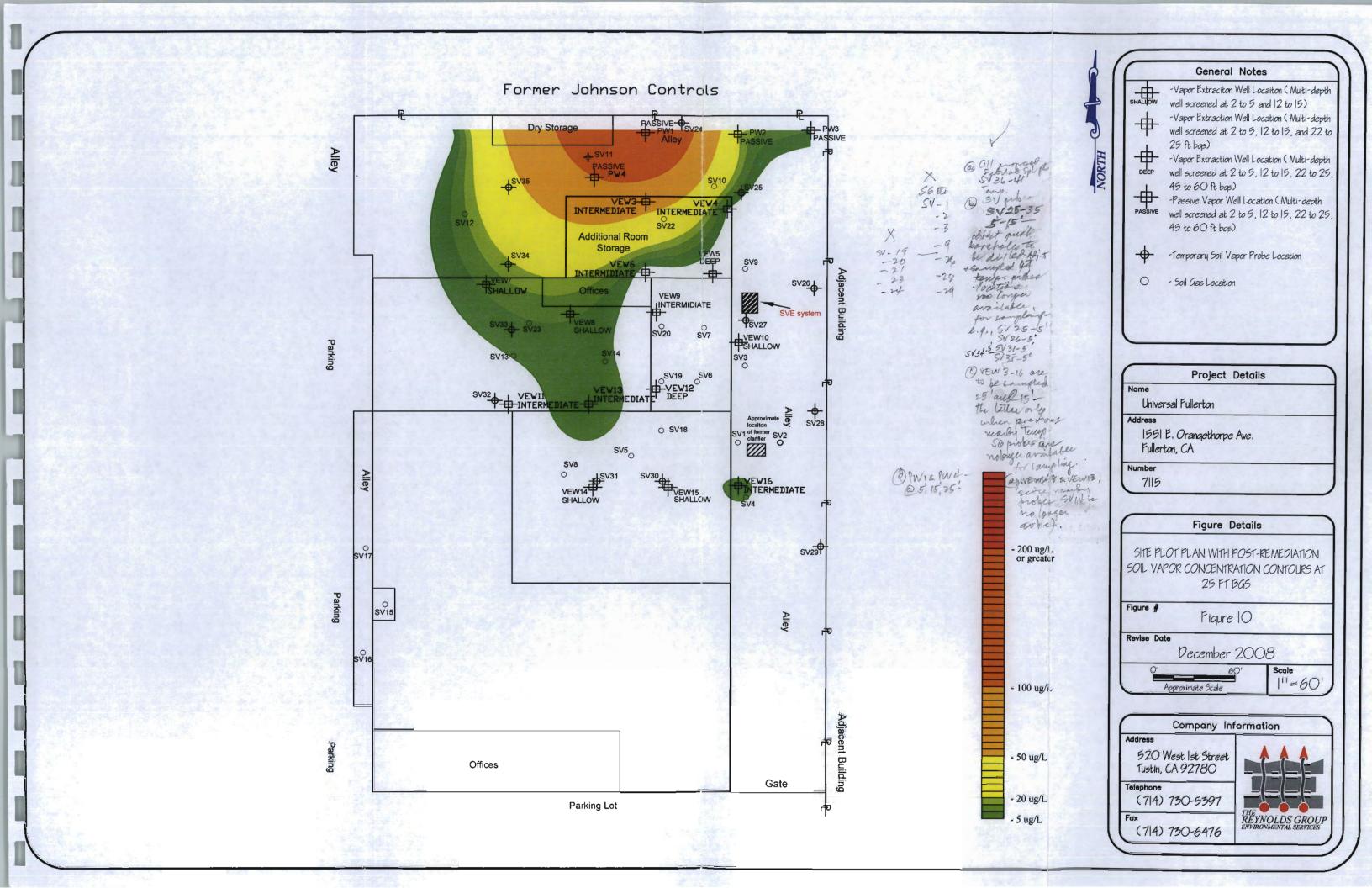


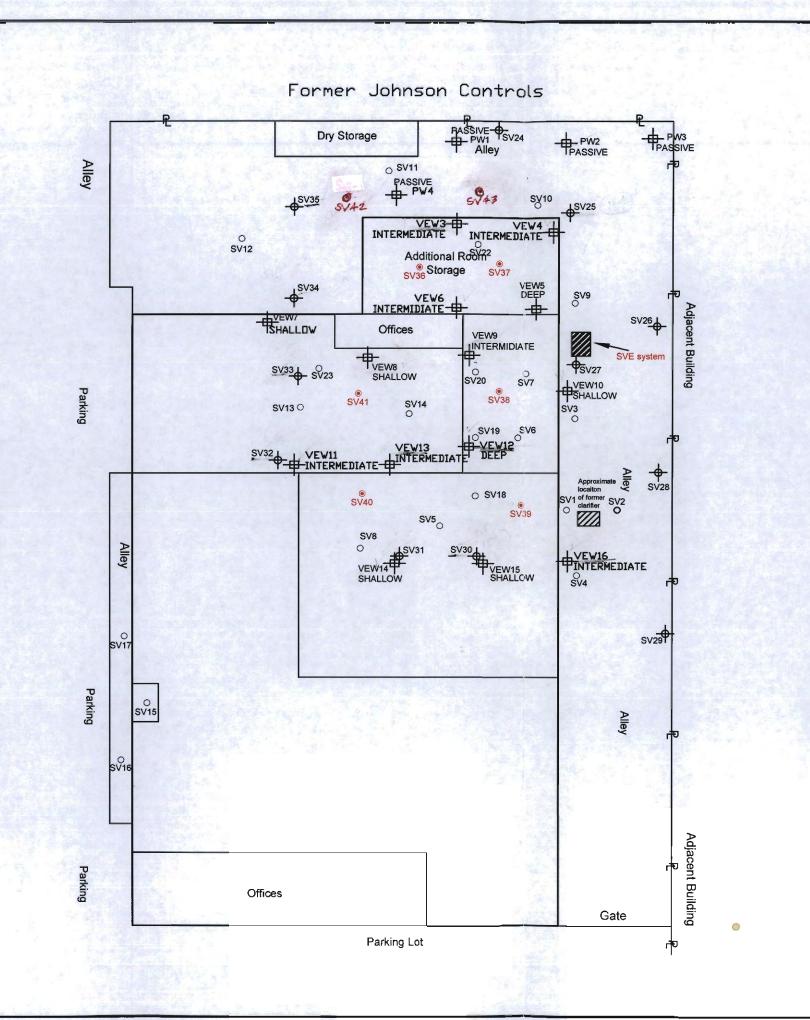












General Notes

-Vapor Extraciton Well Locaiton (Multi-depth well screened at 2 to 5 and 12 to 15)

-Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, and 22 to 25 ft bos)

-Vapor Extraction Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25 45 to 60 ft bas)

-Passive Vapor Well Location (Multi-depth well screened at 2 to 5, 12 to 15, 22 to 25, 45 to 60 ft bgs)

-Temporary Soil Vapor Probe Location

O - Soil Gas Location

- Proposed Sub-Slab Sampling Location

Project Details

Name

Universal Fullerton

Address

1551 E. Orangethorpe Ave. Fullerton, CA

Number

7115

Figure Details

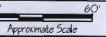
SITE PLOT PLAN WITH PROPOSED VERIFICATION SAMPLING LOCATIONS

Figure #

Figure 11

Revise Date

December 2008



Scale | 11 = 601

Company Information

Address

520 West 1st Street Tustin, CA 92780

Telephone

(714) 730-5397

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(714) 730-6476



March 12, 2007

Mr. Christopher Terpolilli The Reynolds Group 520 W. 1st St. Tustin, CA 92780

Dear Mr. Terpolilli:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for The Reynolds Group on March 9, 2007. The study was performed at 1551 E. Orangethorpe Avenue, Fullerton, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil, and if possible determine potential source area(s).

Sampling Method

Sampling was performed by hydraulically pushing 1/2" steel soil gas probes to a depth of 5.0 feet bgs. An electric rotary hammer drill was used to drill a 1.0 inch hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location an electric vacuum pump (set to draw 0.1-2.0 liters/min of soil vapor at a maximum vacuum of 100" of water) was attached to the probe and purged prior to sample collection. Vapor samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing which connects the sampling probe and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. Samples were immediately injected into the gas chromatograph after collection. New sampling probes were used after each sample with positive results. Equipment blanks using ambient air were collected throughout the day. If significant contamination is detected in these blanks, corrective actions would be taken to identify and eliminate the source, if possible.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Flame Ionization Detector (FID) and an Electron Capture Detector (ECD). Restec wide bore capillary columns using hydrogen as the carrier gases were used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's PC based chromatographic data collection and handling system.

Quality Assurance

3-Point Calibration

An initial 3-point calibration was performed on March 9, 2007 by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 ng/ul and 0.25 ng/ul.

The initial three point calibrations consisted of 20, 100 and 500 ul injections of the calibration solutions. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r² factor generated from this line was not greater than 0.990, an additional three point calibration would have been performed. Method detection limits were calculated to be 1.0 ug/L for the individual compounds.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	

Sample Replicates

A replicate analysis (duplicate) is run when concentrations exceed the calibrated range of the instrument/detector being used. The duplicate sample is diluted using a smaller injection volume to assure that the instrument response falls within 50% of the calibrated range. In addition, a duplicate analysis is run a minimum of once each day to evaluate the reproducibility of the sampling system and instrument. If the difference between samples varies more than 20%, the entire system is evaluated and the inconsistency is determined and corrected, if possible.

Equipment Blanks

Blanks are run at the beginning of each workday, after calibrations and whenever sampling conditions appear to change. New vapor probes are used following each sample with positive results or when probes were damaged during installation. The blanks are collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Subsurface Conditions

Subsurface soil conditions at this site were predominantly sandy from ground surface to 5.0 feet bgs. These soil conditions offered sampling flows at 0" water vacuum. Depth to groundwater was unknown at the time of the investigation.

Scope of Work

To achieve the objective of this investigation a total of 19 vapor samples were collected from 17 locations throughout the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Results

During this vapor investigation fifteen sample locations contained levels of Tetrachloroethene (PCE). PCE levels ranged from 1.4 ug/L at SV-15 to 222.2 ug/L at SV-10. Fourteen sample locations contained levels of Trichloroethene (TCE) and 1,1-Dichloroethene. TCE levels ranged from 1.9 ug/L at SV-11 to 115.2 ug/L at SV-6. 1,1-Dichloroethene levels ranged from 3.2 ug/L at SV-2 to 79.7 ug/L at SV-10. Eleven sample locations contained levels of 1,1,1-Trichloroethane (TCA). TCA levels ranged from 1.2 ug/L at SV-10 to 83.5 ug/L at SV-5 & SV-12. Freon 113 was found in six locations. Freon 113 levels ranged from 3.7 ug/L at SV-8 to 8.3 ug/L at SV-14. Four samples contained levels of cis-1,2-Dichloroethene. Cis-1,2-Dichloroethene levels ranged from 1.1 ug/L at SV-2 to 2.5 ug/L at SV-3. Finally, two samples contained levels of Vinyl Chloride. Vinyl Chloride levels were 1.1 ug/L at SV-13 and 3.2 ug/L at SV-12. None of the other compounds listed in Table 1 above were detected above the listed detection limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (818) 734-6230.

Sincerely,

Jason Anderson
Jason Anderson

Jason Anderson

Jason Anderson

Project Manager



Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA

Lab Name: Optimal Technology

Date: 3/9/07

Analyst J.A.

Inst. ID: HP-5890 Series II

Collector: J.A.

Detectors: FID and ECD

Page: 1 of 3

SAMPLE ID	N/A
Sampling Depth (Ft.)	N/A
Purge Volume (ml)	N/A
Vacuum (in. of Water)	N/A
Injection Volume (ul)	500/500
Dilution Factor (ECD/FID)	1/1

BLANK-1	SV-1	SV-1 Dil.	SV-2	SV-3	SV-4	SV-5	SV-6
N/A	5.0	5.0	5.0	5.0	5.0	5.0	5.0
N/A	1,500	1,500	1,500	1,500	1,500	1,500	1,500
N/A	0	0	0	0	0	0	0
500/500	500/500	100/500	100/500	100/500	100/500	100/500	100/500
1/1	1/1	5/1	5/1	5/1	5/1	5/1	5/1

COMPOUND	DET. LIMIT
Dichlorodifluoromethane	1.0
Chioroethane	1.0
Trichlorofluoromethane	1.0
Freon 113	1.0
Methylene Chloride	1.0
1,1-Dichloroethane	1.0
Chloroform	1.0
1,1,1-Trichloroethane	1.0
Carbon Tetrachloride	1.0
1,2-Dichloroethane	1.0
Trichloroethene (TCE)	1.0
1,1,2-Trichloroethane	1.0
Tetrachloroethene (PCE)	1.0
1,1,1,2-Tetrachloroethane	1.0
1,1,2,2-Tetrachloroethane	1.0
Vinyl Chloride	1.0
Acetone	1.0
1,1-Dichloroethene	1.0
trans-1,2-Dichloroethene	1.0
2-Butanone (MEK)	1.0
cis-1,2-Dichloroethene	1.0
Cyclohexane	1.0
Benzene	1.0
4-Methyl-2-Pentanone	1.0
Toluene	1.0
Chlorobenzene	1.0
Ethylbenzene	1.0
m/p-Xylene	1.0
o-Xylene	1.0

| CONC (ug/L) |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ND |
| ND |
| ND |
| ND | 4.7 | 5.5 | ND | ND | ND | ND | ND |
| ND |
| ND |
ND	Ŋ	ND	ND	ND	ND	ND	ND
ND	53.6	55.0	3.4	12.7	11.2	83.5	71.8
ND	DZ DZ	ND	ND	ND	Z	ND	ND
ND	ND	ND	ND	ND	Z	ND	ND
ND	69.9	70.7	11.0	38.6	24.2	58.2	115.2
ND							
ND	os	78.8	15.3	36.4	39.2	35.3	80.3
ND							
ND	ND	ND	ND	ND	D N	ND	ND
ND							
ND							
ND	17.4	18.2	3.2	25.3	9.1	40.4	65.3
ND							
ND							
ND	ND	ND	1.1	2.5	ND	1.2	1.2
ND	ZD	ND	ND	ND	ND	ND	ND
ND							
ND	ND	D	ZD ZD	ND	ND	ND	ND
ND							
ND							
ND							
ND							
ND							

Note: ND = Below Listed Detection Limit; OS = Off the electronic scale of detector

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA

Lab Name: Optimal Technology

Analyst J.A. Inst. ID: HP-5890 Series II

Collector: J.A. Detectors: FID and ECD Page: 2 of 3

SAMPLE ID	N/A
Sampling Depth (Ft.)	N/A
Purge Volume (ml)	N/A
Vacuum (in. of Water)	N/A
Injection Volume (ul)	500/500
Dilution Factor (ECD/FID)	1/1

SV-7	SV-8	SV-9	SV-10	SV-11	SV-11 Dup	SV-12	SV-13
5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
1,500	1,500	1,500	1,500	1,500	1,500	1, <u>5</u> 00	1,500
0	0	0	0	0	0	0	0
100/500	100/500	100/500	100/500	100/500	100/500	100/500	100/500
5/1	5/1	5/1	5/1	5/1	5/1	5/1	5/1_

Date: 3/9/07

COMPOUND	DET. LIMIT
Dichlorodifluoromethane	1.0
Chloroethane	1.0
Trichlorofluoromethane	1.0
Freon 113	1.0
Methylene Chloride	1.0
1,1-Dichloroethane	1.0
Chloroform	1.0
1,1,1-Trichloroethane	1.0
Carbon Tetrachloride	1.0
1,2-Dichloroethane	1.0
Trichloroethene (TCE)	1.0
1,1,2-Trichloroethane	1.0
Tetrachloroethene (PCE)	1.0
1,1,1,2-Tetrachloroethane	1.0
1,1,2,2-Tetrachloroethane	1.0
Vinyl Chloride	1.0
Acetone	1.0
1,1-Dichloroethene	1.0
trans-1,2-Dichloroethene	1.0
2-Butanone (MEK)	1.0
cis-1,2-Dichloroethene	1.0
Cyclohexane	1.0
Benzene	1.0
4-Methyl-2-Pentanone	1.0
Toluene	1.0
Chlorobenzene	1.0
Ethylbenzene	1.0
m/p-Xylene	1.0
o-Xylene	1.0

| CONC (ug/L) |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ND |
ND	ND	ND	ND	ND	ND ND	DZ	ND
ND	ND	ND	ND	ND	ND	ZD	ND
6.9	3.7	ND	4.4	ND	ND ND	3.9	ND
ND							
ND							
ND							
11.3	4.3	ND	1.2	ND	ND	83.5	ND
ND							
ND							
101.7	22.6	11.6	88.8	1.9	1.8	50.4	16.3
ND							
99.6	7.2	53.7	222.2	34.9	32.0	72.8	7.4
ND	ND	DN	ND	ND	ND	ND	D
ND	ND	DN	ND	ND	ND	DZ	ND ND
ND	ND	ND	ND	ND	ND	3.2	1.1
ND							
78.3	17.7	6.0	79.7	ND	ND	63.6	7.4
ND							
ND							
ND							
ND							
ND	ND	ND	ND_	ND	ND	ND	ND
ND							
ND	NĎ	ND	ND	ND	ND	ND	ND
ND							
ND							
ND	_ND						
ND							

Note: ND = Below Listed Detection Limit



Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA

Lab Name: Optimal Technology

Date: 3/9/07

Analyst J.A.

Inst. ID: HP-5890 Series II

Collector: J.A. Detectors: FID and ECD

Page: 3 of 3

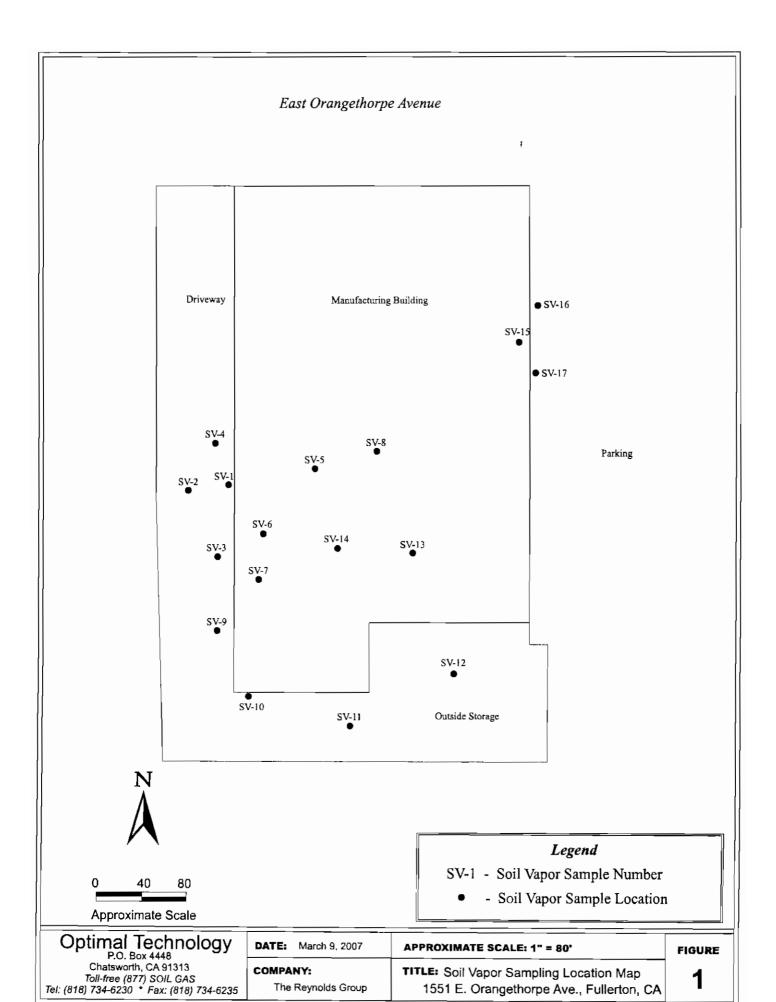
SAMPLE ID	N/A
Sampling Depth (Ft.)	N/A
Purge Volume (ml)	N/A
Vacuum (in. of Water)	N/A
Injection Volume (ul)	500/500
Dilution Factor (ECD/FID)	1/1

SV-14	SV-15	SV-16	SV-17		
5.0	5.0	5.0	5.0		
1,500	1,500	1,500	1,500		
0	0	0	0		
100/500	100/500	100/500	100/500		
5/1	5/1	5/1	5/1		

COMPOUND	DET. LIMIT
Dichlorodifluoromethane	1.0
Chloroethane	1.0
Trichlorofluoromethane	1.0
Freon 113	1.0
Methylene Chloride	1.0
1,1-Dichloroethane	1.0
Chloroform	1.0
1,1,1-Trichloroethane	1.0
Carbon Tetrachloride	1.0
1,2-Dichloroethane	1.0
Trichloroethene (TCE)	1.0
1,1,2-Trichloroethane	1.0
Tetrachioroethene (PCE)	1.0
1,1,1,2-Tetrachioroethane	1.0
1,1,2,2-Tetrachloroethane	1.0
Vinyl Chloride	1.0
Acetone	1.0
1,1-Dichloroethene	1.0
trans-1,2-Dichloroethene	1.0
2-Butanone (MEK)	1.0
cis-1,2-Dichloroethene	1.0
Cyclohexane	1.0
Benzene	1.0
4-Methyl-2-Pentanone	1.0
Toluene	1.0
Chlorobenzene	1.0
Ethylbenzene	1.0
m/p-Xylene	1.0
o-Xylene	1.0

CONC (ug/L)	CONC (ug/L)	CONC (ug/L)	CONC (ug/L)		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
8.3	ND	ND	ND		
ND	ND	ND	ND		
ND.	ND	ND	ND		
ND	ND	DN	ND		
6.3	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
98.7	ND	ND	ND		
ND	ND	ND	ND		
50.1	1.4	ND	ND		
ND	DN	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
78.2	54.4	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		
ND	ND	ND	ND		

Note: ND = Below Listed Detection Limit



July 31, 2007

Ms. Christa Wolfe The Reynolds Group 520 W. 1st St. Tustin, CA 92780

Dear Ms. Wolfe:

This letter presents the results of the soil vapor investigation conducted by Optimal Technology (Optimal), for The Reynolds Group on July 30, 2007. The study was performed at 1551 E. Orangethorpe Avenue, Fullerton, California.

Optimal was contracted to perform a soil vapor survey at this site to screen for possible chlorinated solvents and aromatic hydrocarbons. The primary objective of this soil vapor investigation was to determine if soil vapor contamination is present in the subsurface soil.

Gas Sampling Method

Gas sampling was performed by hydraulically pushing soil gas probes to a depth of 1.0-1.5 feet below the existing concrete slab. An electric rotary hammer drill was used to drill a 1.0-inch diameter hole through the overlying surface to allow probe placement when required. The same electric hammer drill was used to push probes in areas of resistance during placement.

At each sampling location an electric vacuum pump set to draw 0.2 liters per minute (L/min) of soil vapor was attached to the probe and purged prior to sample collection. Vapor samples were obtained in Hamilton gas-tight syringes by puncturing silicone tubing which connects the sampling probe and the vacuum pump. New silicone tubing was used at each sampling point to prevent cross contamination. Samples were immediately injected into the gas chromatograph after collection. Clean sampling probes were used after each sample with detectable analytes. Equipment blanks using ambient air were collected throughout the day.

All analyses were performed on a laboratory grade Hewlett Packard model 5890 Series II gas chromatograph equipped with a Hewlett Packard model 5971 Mass Spectra Detector. An SGE capillary column using helium as the carrier gas was used to perform all analysis. All results were collected on a personal computer utilizing Hewlett Packard's 5971 MS and chromatographic data collection and handling system.

Quality Assurance

3-Point Calibration

An initial 3-point calibration was performed on July 30, 2007 by preparing a calibration solution from a pre-mixed standard supplied by Supelco, Inc. The standard contained common halogenated solvents and aromatic hydrocarbons (see Table 1). The individual compound concentrations in the standards ranged between 0.025 nanograms per microliter(ng/ul) and 0.25 ng/ul.

The initial three point calibrations consisted of 100, 250 and 500 ul injections of the calibration solutions. A calibration factor on each analyte was generated using a best fit line method using the HP data system. If the r² factor generated from this line was not greater than 0.990, an additional three point calibration would have been performed. Method detection limits were calculated to be 1.0 micrograms per Liter (ug/L) for the individual compounds.

TABLE 1

Dichlorodifluoromethane	Carbon Tetrachloride	Chloroethane
Trichlorofluoromethane	1,2-Dichloroethane	Benzene
1,1-Dichloroethene	Trichloroethene	Toluene
Methylene Chloride	1,1,2-Trichloroethane	Ethylbenzene
trans-1,2-Dichloroethene	Tetrachloroethene	m-/p-Xylene
1,1-Dichloroethane	Chloroform	o-Xylene
cis-1,2-Dichloroethene	1,1,2-Tetrachloroethane	Vinyl Chloride
1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	Freon 113
4-Methyl-2-Pentanone	Cyclohexane	Acetone
Chlorobenzene	2-Butanone	

Sample Replicates

A replicate analysis (duplicate) was run to evaluate the reproducibility of the sampling system and instrument. The difference between samples did not vary more than 20%.

Purge Volume Test

"Purge volume" is the total internal volume of the sampling probe. Three separate purge volumes were tested: 1, 3, and 7 volumes. It was found that 7 volumes were best for this soil vapor survey.

Equipment Blanks

Blanks were run at the beginning of each workday and after calibrations. Clean vapor probes were used following each sample with detectable analytes or when probes were damaged during installation. The blanks were collected using an ambient air sample. These blanks checked the septum, syringe, GC column, GC detector and the ambient air. Contamination was not found in any of the blanks analyzed during this investigation. Blank results are given along with the sample results.

Tracer Gas

A tracer gas was applied to the soil gas probes at each point of connection in which ambient air could enter the sampling system. These points include the top of the sampling probe where the tubing meets the probe connection and the surface bentonite seals. Isobutane was used as the tracer gas, found in common shaving cream. No Isobutane was found in any of the samples collected.

Scope of Work

To achieve the objective of this investigation a total of 8 vapor samples were collected from 5 locations throughout the site. Sampling depths, vacuum readings, purge volume and sampling volumes are given on the analytical results page. All the collected vapor samples were analyzed on-site using Optimal's mobile laboratory.

Subsurface Conditions

Subsurface soil conditions at this site were predominantly sandy with some silty-clay from ground surface to 2.0 feet bgs. These soil conditions offered sampling flows at 0-15" water vacuum. Depth to groundwater was unknown at the time of the investigation.

Results

During this vapor investigation all samples contained levels of Tetrachloroethene (PCE), Trichloroethene (TCE) and 1,1-Dichloroethene. PCE levels ranged from 72.1 ug/L at SV-23 to 1,079.4 ug/L at SV-22. TCE levels ranged from 80.4 ug/L at SV-23 to 710.8 ug/L at SV-22. 1,1-Dichloroethene levels ranged from 64.3 ug/L at SV-18 to 251.6 ug/L at SV-22. Five locations contained both Freon 113 and 1,1,1-Trichloroethane (TCA). Freon 113 levels ranged from 1.1 ug/L at SV-22 to 11.4 ug/L at SV-19. TCA levels ranged from 5.7 ug/L at SV-20 to 71.0 ug/L at SV-18. Additionally, SV-22 contained 6.5 ug/L of cis-1,2-Dichloroethene. None of the other compounds listed in Table 1 above were detected above the listed detection limits. A complete table of analytical results is included with this report.

Disclaimer

All conclusions presented in this letter are based solely on the information collected by the soil vapor survey conducted by Optimal Technology. Soil vapor testing is only a subsurface screening tool and does not represent actual contaminant concentrations in either the soil and/or groundwater. We enjoyed working with you on this project and look forward to future projects. If you have any questions please contact me at (877) 764-5427.

Sincerely,

Jason Anderson Project Manager

Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA

Lab Name: Optimal Technology

Date: 7/30/07

Analyst J.A.

Inst. ID: HP-5890 Series II

Collector: J.A. Detectors: HP-5971 Mass Spectrometer

Page: 1 of 2

SAMPLE ID	
Sampling Depth Below Slab (Ft.)	
Purge Volume (ml)	
Vacuum (in. of Water)	
Injection Volume (ul)	
Dilution Factor	

BLANK-1	SV-18 PT3V	SV-18 PT1V	SV-18 PT7V	SV-19	SV-20	SV-21	\$V-22
N/A	1.0	1.0	1.0	1.0	1.0	1.0-1.5	1.5
N/A	1,500	500	3,500	3,500	3,500	N/A	3,500
N/A	10	10	10	15	0	>100	0
1000	1000	1000	1000	1000	1000	N/A	1000
1	1	1	1	1	1	N/A	1

COMPOUND	DET. LIMIT
Dichlorodifluoromethane	1.0
Chloroethane	1.0
Trichlorofluoromethane	1.0
Freon 113	1.0
Methylene Chloride	1.0
1,1-Dichloroethane	1.0
Chloroform	1.0
1,1,1-Trichloroethane	1.0
Carbon Tetrachloride	1.0
1,2-Dichloroethane	1.0
Trichloroethene (TCE)	1.0
1,1,2-Trichloroethane	1.0
Tetrachioroethene (PCE)	1.0
1,1,1,2-Tetrachloroethane	1.0
1,1,2,2-Tetrachloroethane	1.0
Vinyl Chloride	1.0
Acetone	1.0
1,1-Dichloroethene	1.0
trans-1,2-Dichloroethene	1.0
2-Butanone (MEK)	1.0
cis-1,2-Dichloroethene	1.0
Cyclohexane	1.0
Benzene	1.0
4-Methyl-2-Pentanone	1.0
Toluene	1.0
Chlorobenzene	1.0
Ethylbenzene	1.0
m/p-Xylene	1.0
o-Xylene_	1.0

| CONC (ug/L) |
|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | 9.8 | 10.2 | 11.1 | 11.4 | 2.3 | N/A | 1.1 |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | 45.2 | 64.1 | 71.0 | 22.2 | 5.7 | N/A | 68.0 |
| ND | D | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | DN | ПN | ND | N/A | ND |
| ND | 86.7 | 109.5 | 120.2 | 190.2 | 99.3 | N/A | 710.8 |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | 118.9 | 147.8 | 163.5 | 190.8 | 164.5 | N/A | 1,079.4 |
| ND | D | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | DN | ND | N/A | ND |
| ND | S | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | 50.2 | 55.3 | 64.3 | 239.3 | 66.2 | N/A | 251.6 |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | 6.5 |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |
| ND | ND | ND | ND | ND | ND | N/A | ND |

Note: ND = Below Listed Detection Limit; PT3V = Purge Test Volume; N/A = Not Applicable because no sample was taken due to high vacuum.



Site Name: 1551 E. Orangethorpe Ave., Fullerton, CA

Lab Name: Optimal Technology

Date: 7/30/07

Analyst J.A.

Inst. ID: HP-5890 Series II

Page: 2 of 2

Collector: J.A.

Detectors: HP-5971 Mass Spectrometer

SAMPLE ID	
Sampling Depth Below Slab (Ft.)	
Purge Volume (ml)	
Vacuum (in. of Water)	
Injection Volume (ul)	
Dilution Factor	

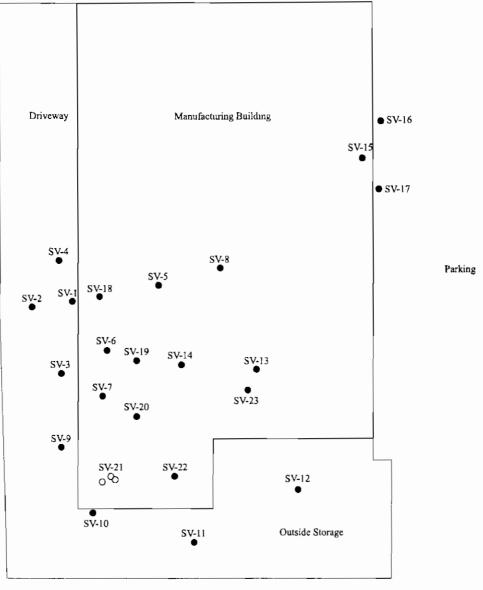
SV-22 Dup	SV-23			
1.5	1.0			
3,500	3,500			
0	10			
1000	1000			
1	1			

COMPOUND	DET. LIMIT
Dichlorodifluoromethane	1.0
Chloroethane	1.0
Trichlorofluoromethane	1.0
Freon 113	1.0
Methylene Chloride	1.0
1,1-Dichloroethane	1.0
Chloroform	1.0
1,1,1-Trichloroethane	1.0
Carbon Tetrachloride	1.0
1,2-Dichloroethane	1.0
Trichloroethene (TCE)	1.0
1,1,2-Trichloroethane	1.0
Tetrachloroethene (PCE)	1.0
1,1,1,2-Tetrachloroethane	1.0
1,1,2,2-Tetrachloroethane	1.0
Vinyl Chloride	1.0
Acetone	1.0
1,1-Dichloroethene	1.0
trans-1,2-Dichloroethene	1.0
2-Butanone (MEK)	1.0
cis-1,2-Dichloroethene	1.0
Cyclohexane	1.0
Benzene	1.0
4-Methyl-2-Pentanone	1.0
Toluene	1.0
Chlorobenzene	1.0
Ethylbenzene	1.0
m/p-Xylene	1.0
o-Xylene	1.0

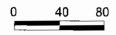
CONC (ug/L)	CONC (ug/L)			
ND	ND			
ND	ND			
ND	ND			
1.6	ND			
ND	ND			
ND	ND			
ND	ND			
66.9	ND			
ND	ND			
ND	ND			
684.9	80.4			
ND	ND			
984.8	72.1			
ND	ND			_
ND	ND			
ND	ZD			
_ND	ND			
232.8	79.8			
ND	ND			
ND	ND			
5.8	ND			
ND	_ND			

Note: ND = Below Listed Detection Limit

East Orangethorpe Avenue







Legend

SV-1 - Soil Vapor Sample Number

- Soil Vapor Sample Location
- No Sample Taken Due to High Vacuum

Optimal	Technol	logy
. PO	Roy 4448	0,

Approximate Scale

Chatsworth, CA 91313
Toll-free (877) SOIL GAS
Tel: (818) 734-6230 * Fax: (818) 734-6235

DATE	j: J	uly	30,	2007

COMPANY:

The Reynolds Group

APPROXIMATE SCALE: 1" = 80"

TITLE: Soil Vapor Sampling Location Map 1551 E. Orangethorpe Ave., Fullerton, CA **FIGURE**



OCT 18 2007 CF

Ms. Christa Wolfe The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780

ofw5hilling,

RE: TRG100907-L4

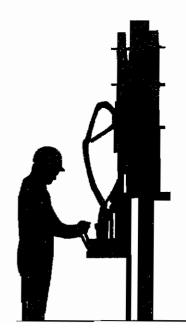
Enclosed are the results of analyses for samples received by the laboratory on 10/9/2007 -10/10/2007. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal

Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.





520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV-35-15, 1PV, 81cc	E710027-01	Vapor	09-Oct-07	09-Oct-07
SV-35-15, 3PV, 223cc	E710027-02	Vapor	09-Oct-07	09-Oct-07
SV-35-15, 7PV, 507cc	E710027-03	Vapor	09-Oct-07	09-Oct-07
SV-34-15, 507cc	E710027-04	Vapor	09-Oct-07	09-Oct-07
SV-33-5, 497cc	E710027-05	Vapor	09-Oct-07	09-Oct-07
SV-33-15, 507cc	E710027-06	Vapor	09-Oct-07	09-Oct-07
SV-32-5, 497cc	E710027-07	Vapor	09-Oct-07	09-Oct-07
SV-32-15, 507cc	E710027-08	Vapor	09-Oct-07	09-Oct-07
SV-30-5, 497cc	E710027-09	Vapor	09-Oct-07	09-Oct-07
SV-30-15, 507cc	E710027-10	Vapor	09-Oct-07	09-Oct-07
SV-31-5, 497cc	E710027-11	Vapor	09-Oct-07	09-Oct-07
SV-31-15, 507cc	E710027-12	Vapor	09-Oct-07	09-Oct-07
SV-31-15 DUP, 567cc	E710027-13	Vapor	09-Oct-07	09-Oct-07
SV-25-5, 497cc	E710033-01	Vapor	10-Oct-07	10-Oct-07
SV-25-15, 507cc	E710033-02	Vapor	10-Oct-07	10-Oct-07
SV-24-15, 507cc	E710033-03	Vapor	10-Oct-07	10-Oct-07
SV-27-5, 497cc	E710033-04	Vapor	10-Oct-07	10-Oct-07
SV-27-15, 507cc	E710033-05	Vapor	10-Oct-07	10-Oct-07
SV-28-5, 497cc	E710033-06	Vapor	10-Oct-07	10-Oct-07
SV-26-15, 507cc	E710033-07	Vapor	10-Oct-07	10-Oct-07
SV-29-5, 497cc	E710033-08	Vapor	10-Oct-07	10-Oct-07
SV-29-15, 507cc	E710033-09	Vapor	10-Oct-07	10-Oct-07
SV-29-5 DUP, 557cc	E710033-10	Vapor	10-Oct-07	10-Oct-07



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15, 1PV, 81cc (E710027-01) Vapor	Sampled: 0	9-Oct-07 R	eceived: (9-Oct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	•	Ħ	И	"	н	H	
Vinyl chloride	ND	0.1		11	Ħ	#	H	,	
Chloroethane	ND	0.5	•	н	*1	11	*1	и	
Trichlorofluoromethane	ND	0.5	•	ıt	**	Pt .	#1		
1,1-Dichloroethene	35	0.5	41		n	"	и		
Methylene chloride	ND	0.5		•		н	H		
Freon 113	ND	0.5		**	н	"	H		
trans-1,2-Dichloroethene	ND	0.5		*	"	"	n	"	
1,1-Dichloroethane	ND	0.5	n	11	*1	"	•	n	
cis-1,2-Dichloroethene	ND	0.5		11	11	и	n	a	
Chloroform	0.2	0.1	•	#	11	II.	n n	**	
1,1,1-Trichloroethane	ND	0.5	**	н	11	"	н	н	
Carbon tetrachloride	ND	0.1	v	#1	11		41	*	
1,2-Dichloroethane	ND	0.1	19	и	B	н	41	"	
Benzene	0.2	0.1	11	и	It	n	ù	4	
Trichloroethene	25	0.1	n	ıŧ	ıı	H	я	я	
Toluene	ND	1.0	"		ı		*1	**	
1,1,2-Trichloroethane	ND	0.5	11	IF	10		11	"	
Tetrachloroethene	40	0.1			*	н	IÌ		
Ethylbenzene	ND	1.0	e	11	(6	n	n	11	
1,1,1,2-Tetrachloroethane	ND	0.5	n	11	н		Ħ	*	
m,p-Xylene	ND	1.0	P	u	n	**	H		
o-Xylene	ND	1.0		•	n	4	*		
1,1,2,2-Tetrachloroethane	ND	0.5			н	•	R		
Surrogate: Dibromofluoromethane		95.6 %	75-	125		**		*	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	75-		"	17	н	at .	
Surrogate: 1,2-Dictioroethane-u4 Surrogate: Toluene-d8		93.2 %	75-		"	"	"	,,	
Surrogate: 10tuene-ao Surrogate: 4-Bromofluorobenzene		95.2 %	75-		#	"	•	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-35-15, 3PV, 223cc (E710027-02) Vapor	Sampled:	09-Oct-07 I	Received: (09-Oct-07	,				
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	•	11	H	u	P	•	
Vinyl chloride	ND	0.1	•	16	И	"	IF	4	
Chloroethane	ND	0.5	•	4	H		н	"	
Trichlorofluoromethane	ND	0.5	•	ч	и	**	И	н	
1,1-Dichloroethene	120	0.5	*	11	Ħ	**	ı	н	
Methylene chloride	ND	0.5		11	4	11	н	41	
Freon 113	0.7	0.5		*1	11		II		
trans-1,2-Dichloroethene	ND	0.5	*	*1	"	4	н	H .	
1,1-Dichloroethane	1.7	0.5	•	*	"	17	*	11	
cis-1,2-Dichloroethene	1.4	0.5	11	*		**		"	
Chloroform	0.5	0.1	•		10	10	19	4	
1,1,1-Trichloroethane	ND	0.5	•	**	10	17	и	**	
Carbon tetrachloride	ND	0.1		и	11	P	19	•	
1,2-Dichloroethane	ND	0.1	*		*1	41	If	**	
Benzene	0.2	0.1	•	4	*1	11	1		
Trichloroethene	57	0.1		"	н	•	11	н	
Toluene	ND	1.0	•	**	H	N	•	"	
1,1,2-Trichloroethane	ND	0.5			n	11	•	*	
Tetrachloroethene	74	0.1		le .	И	**	м	•	
Ethylbenzene	ND	1.0		н	н		*	19	
1,1,1,2-Tetrachloroethane	ND	0.5		*	н	•	в		
m,p-Xylene	ND	1.0			H	H	H	•	
o-Xylene	ND	1.0	•	11			4		
1,1,2,2-Tetrachloroethane	ND	0.5				4		17	
Surrogate: Dibromofluoromethane		104 %	75-1	25	,,	,,	n	,	
Surrogate: 1,2-Dichloroethane-d4		104 %	75-1		"	,,	*	,,	
Surrogate: Toluene-d8		104 %	75-1 75-1		"	"	ff	"	
Surrogate: 4-Bromofluorobenzene		100 %	75-1	_	n	*	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Result	Reporting Limit		Dilution Factor	Batch	Prepared	Analyzed	Method	Notes			
SV-35-15, 7PV, 507cc (E710027-03) Vapor	Sampled:	09-Oct-07	Received	: 09-Oct-07	1							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B				
Dichlorodifluoromethane	ND	0.5	11	"	•		*	•				
Vinyl chloride	ND	0.1	*	•	11		•	n				
Chloroethane	ND	0.5		"	"	4	4	"				
Trichlorofluoromethane	ND	0.5	h	**	**	#	•	n				
1,1-Dichloroethene	140	0.5	n	91	#	"	11	W .				
Methylene chloride	ND	0.5	н	4	10	11	**	"				
Freon 113	0.9	0.5	H	н	10	*	19	"				
trans-1,2-Dichloroethene	ND	0.5	+	н	**	11	*	н				
1,1-Dichloroethane	2.1	0.5	"	ŧ(**	H	*	**				
cis-1,2-Dichloroethene	1.7	0.5		H	10	•	H	H				
Chloroform	0.6	0.1	*1		10		*	11				
1,1,1-Trichloroethane	ND	0.5	4	н	11	и	11	*				
Carbon tetrachloride	ND	0.1	Ħ	н	•	*	*	ir				
1,2-Dichloroethane	ND	0.1	н		11	4	**	n				
Benzene	0.3	0.1	н	16	и	**	41					
Trichloroethene	72	0.1	п	•	rò	4	*	н				
Toluene	ND	1.0	•		"	4	*	н				
1,1,2-Trichloroethane	ND	0.5	*	17	н	41		н				
Tetrachloroethene	93	0.1		H	н	4	"					
Ethylbenzene	ND	1.0	11	10	H	41	n					
1,1,1,2-Tetrachloroethane	ND	0.5			H	ıı		н				
m,p-Xylene	ND	1.0	и		*	lı		"				
o-Xylene	ND	1.0		"	H	н						
1,1,2,2-Tetrachloroethane	ND ND	0.5						н				
					,,	,,	"	*				
Surrogate: Dibromofluoromethane		102 %		-125	~	"	,,					
Surrogate: 1,2-Dichloroethane-d4		103 %		-125	~	"	,,					
Surrogate: Toluene-d8		100 %		-125		"	,,	,				
Surrogate: 4-Bromofluorobenzene		99.2 %	75-	-125		"		••				



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-33-15, 507cc (E710027-06) Vapor	Sampled: 09-Oct-07	Receiv	ed: 09-O	ct-07					
1,1-Difluoroethane (LCC)	ND	10	սց/)	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	*	*	10	*	*	P	
Vinyl chloride	ND	0.1	11				н	le .	
Chloroethane	ND	0.5	Ħ		19		н	н	
Trichlorofluoromethane	ND	0.5	*	n	н		II.	*	
1,1-Dichloroethene	140	0.5	н	41	"	n	н	н	
Methylene chloride	ND	0.5	41	*	19	•	и		
Freon 113	2.0	0.5		и	19	H	ii.	R	
trans-1,2-Dichloroethene	ND	0.5		11	*	11	19		
1,1-Dichloroethane	4.0	0.5		41	19	R	11	4	
cis-1,2-Dichloroethene	ND	0.5	4	*1	10	u	h	4	
Chloroform	1.2	0.1	11	"	19		н		
1,1,1-Trichloroethane	2.5	0.5	4	#	19	•	H	ч	
Carbon tetrachloride	ND	0.1	н	•1	(1	в	н	4	
1,2-Dichloroethane	ND	0.1	4	11	10	"	a	"	
Веплепе	0.2	0.1	•	•	18			ır.	
Trichloroethene	90	0.1		Ħ	н		R		
Toluene	ND	1.0	н	п		и	n	н	
1,1,2-Trichloroethane	ND	0.5	н	u	11	N	4	41	
Tetrachloroethene	54	0.1		p	+	*		*	
Ethylbenzene	ND	1.0	u .	н	10	**	*	u	
1,1,1,2-Tetrachloroethane	ND	0.5	п		*		н		
m,p-Xylene	ND	1.0		ı	4	н		н	
o-Xylene	ND	1.0	н	17	Į.		*	11	
1,1,2,2-Tetrachloroethane	ND	0.5	*			"	н		
Surrogate: Dibromofluoromethane		102 %	75-	125	<i>n</i>	,,	,,	n	
Surrogate: 1,2-Dichloroethane-d4		107 %	75-		n	"	n	,,	
Surrogate: Toluene-d8		99.6%	75-		**	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-		"	*	,,	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-32-5, 497cc (E710027-07) Vapor	Sampled: 09-Oct-07	Receive	d: 09-Oc	t-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	•	"		4	и		
Vinyl chloride	ND	0.1	"	11	**	#	11	•	
Chloroethane	ND	0.5	H		19	*	"	*	
Trichlorofluoromethane	ND	0.5		*	R		H	41	
1,1-Dichloroethene	73	0.5	•	*1		H		н	
Methylene chloride	ND	0.5	•	**	"	*			
Freon 113	2.6	0.5	*	*	"				
trans-1,2-Dichloroethene	ND	0.5	"		*	н	н		
1,1-Dichloroethane	0.5	0.5	R	"		ь	N	н	
cis-1,2-Dichloroethene	ND	0.5	w	и	H	n	н	н	
Chloroform	0.3	0.1	и		**	#	"	•	
1,1,1-Trichloroethane	1.4	0.5			н	*	41	4	
Carbon tetrachloride	ND	0.1		19	ш	*	я	4	
1,2-Dichloroethane	ND	0.1	IP	4	D	P\$	И	*	
Benzene	0.2	0.1	**	н		**	"		
Trichloroethene	38	0.1	*	19	n	•	"		
Toluene	2.1	1.0	*	u	н	o	**	н	
1,1,2-Trichloroethane	ND	0.5		U	п	*	*	*	
Tetrachloroethene	11	0.1	IP.	ıı.			ĸ	16	
Ethylbenzene	ND	1.0	*	Ħ		n		"	
1,1,1,2-Tetrachloroethane	ND	0.5	•	71	19		и		
m,p-Xylene	ND	1.0	*	ı		•	н	"	
o-Xylene	ND	1.0	¥	ų	#	*	•		
1,1,2,2-Tetrachloroethane	ND	0.5	*	"	n			N	
Surrogate: Dibromofluoromethane		101 %	75-	125	"	,,	,,	n	
Surrogate: 1,2-Dichloroethane-d4		104 %	75-	125	"	"	"	,,	
Surrogate: Toluene-d8		98.4 %	75-	125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		97.2 %	7 5 - 1	125	Ħ	,,	"	n	



520 West 1st Street Tustin, CA 92780 Project: TRG 00907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported:

16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Reporting Dilution											
Analyte	Result	Limit	Units	Factor	Batch	Prepared	Analyzed	Method	Note		
SV-34-15, 507cc (E710027-04) Vapor	Sampled: 09-Oct-07	Receiv	ed: 09-O	ct-07							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B			
Dichlorodifluoromethane	ND	0.5	•	•	•	D	н	•			
Vinyl chloride	ND	0.1	н	"	#	11	II	*			
Chloroethane	ND	0.5	*				"				
Trichlorofluoromethane	ND	0.5	"	"	#	"	10				
1,1-Dichloroethene	460	10	*	1	17	ır	09-Oct-07				
Methylene chloride	ND	0.5	**	0.05	D	P	09-Oct-07	•			
Freon 113	1.9	0.5	*		p		II	•			
trans-1,2-Dichloroethene	ND	0.5	"	•	"	ı	u	•			
1,1-Dichloroethane	6.9	0.5	•	•	H-	ч					
cis-1,2-Dichloroethene	1.2	0.5			н	И	ı				
Chloroform	1.9	0.1	н	•		н	H	ν			
1,1,1-Trichloroethane	2.7	0.5	"	"	"	*	n	W			
Carbon tetrachloride	ND	0.1		"	*	*	Ħ	•			
1,2-Dichloroethane	ND	0.1	17	17		•	H	*			
Benzene	0.2	0.1	**	**		•	*	•			
Trichloroethene	110	0.1	**	tt.	н		н	•			
Toluene	ND	1.0	я	44		*	#	*			
1,1,2-Trichloroethane	ND	0.5	*1	11	*	*	*	•			
Tetrachloroethene	92	0.1	w				*	•			
Ethylbenzene	ND	1.0	11		IP		19				
1,1,1,2-Tetrachloroethane	ND	0.5	#	H	Ħ	*1	10				
m,p-Xylene	ND	1.0	41	ır	*	11	H				
o-Xylene	ND	1.0	"	*	*	(1	n	*			
1,1,2,2-Tetrachloroethane	ND	0.5	"	м		"	*	*			
Surrogate: Dibromofluoromethane		97.2 %	75-	125	"	"	H	*			
Surrogate: 1,2-Dichloroethane-d4		98.0 %	75-		n	11	"	"			
Surrogate: Toluene-d8		93.6 %	75-		"	,,	"	"			
Surrogate: 4-Bromofluorobenzene		97.6 %	7 5 -		#	"	"	rr rr			



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-33-5, 497cc (E710027-05) Vapor	Sampled: 09-Oct-07	Receive	d: 09-Oc	t-07					
I,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	H	И	Ħ	41	1¢	H	
Vinyl chloride	ND	0.1	Ħ	11	н	"	16	*	
Chloroethane	ND	0.5	*	**	*1	11	11		
Trichlorofluoromethane	ND	0.5	ħ	19	н	*1	ш		
1,1-Dichloroethene	55	0.5	н	H	**	**	и	n	
Methylene chloride	ND	0.5	Ħ	п	**	я	IP	H	
Freon 113	0.6	0.5	II-		**	17	Ц	ч	
trans-1,2-Dichloroethene	ND	0.5		н	*	11	и		
1,1-Dichloroethane	1.2	0.5	n	n	*1	er er		r r	
cis-1,2-Dichloroethene	ND	0.5	n	и	н	4	D	Ħ	
Chloroform	0.5	0.1	n	н	п	0	в	n	
1,1,1-Trichloroethane	0.9	0.5	*	Ħ	*1	u	н	#	
Carbon tetrachloride	ND	0.1	۳	•	#	u u	н	91	
1,2-Dichloroethane	ND	0.1	11	(1	н	#	н	Ħ	
Benzene	0.2	0.1	IF	ų	n	41	н	Ħ	
Trichloroethene	47	0.1	H	4	н	41	IF	Ħ	
Toluene	ND	1.0	IF	19	н	•	R	ėl –	
1,1,2-Trichloroethane	ND	0.5	п	**	и	•	H	н	
Tetrachloroethene	25	0.1	4	I P	"	n	11	н	
Ethylbenzene	ND	1.0	IP	#	41	**	10	ц	
1,1,1,2-Tetrachloroethane	ND	0.5	11	11	н	a	11	at .	
m,p-Xylene	ND	1.0	н	•	п	ų	R	91	
o-Xylene	ND	1.0	**	•	*	11	11	"	
1,1,2,2-Tetrachloroethane	ND	0.5	н	Ħ .	11	41	u u	9	
Surrogate: Dibromofluoromethane		108 %	75-	125	η	**	**	"	
Surrogate: 1,2-Dichloroethane-d4		107 %	75-	125	n	Ħ	n	n	
Surrogate: Toluene-d8		105 %	75-	125	H	#	**	n	
Surrogate: 4-Bromofluorobenzene		104 %	75-	125	и	"	"	M	



520 West 1st Street Tustin, CA 92780

Project: TRG100907-L4
Project Number: 7115 Phase 250
Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-32-15, 507cc (E710027-08) Vapor	Sampled: 09-Oct-07	mpled: 09-Oct-07 Received: 09-Oct-07							
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	_
Dichlorodifluoromethane	ND	0.5	Ħ	н	*	•	н	•	
Vinyl chloride	ND	0.1	Ħ	*			11		
Chloroethane	ND	0.5		н .	**	*	"	•	
Trichlorofluoromethane	ND	0.5	н	н	*	•	11	41	
1,1-Dichloroethene	49	0.5	н	н	II	P	1t		
Methylene chloride	ND	0.5	10	D	*1	p	**	и	
Freon 113	1.8	0.5	4	и	H	H		P	
trans-1,2-Dichloroethene	ND	0.5	4	*1	11	"	H	"	
1,1-Dichloroethane	ND	0.5		n	a	u	14		
cis-1,2-Dichloroethene	ND	0.5	**	и	IF.		Ħ		
Chloroform	0.3	0.1	10	*	н		11	•	
1,1,1-Trichloroethane	1.1	0.5	41	н	11	H	at		
Carbon tetrachloride	ND	0.1	ti	*1	11		**	**	
1,2-Dichloroethane	ND	0.1	**	н	n		11		
Benzene	0.2	0.1	n	п	ц		н	li .	
Trichlorgethene	32	0.1	10	n	•	*1	11	*	
Toluene	ND	1.0	#	н	1+	*	n	11	
1,1,2-Trichloroethane	ND	0.5	10	n	•	•	ч	и	
Tetrachloroethene	11	0.1	**		н	•	4	н	
Ethylbenzene	ND	1.0	H	n	4	D	•	н	
i, 1, 1, 2-Tetrachloroethane	ND	0.5	Ħ		n	*			
m,p-Xylene	ND	1.0		"			4	н	
o-Xylene	ND	1.0	"	11			н	и	
1,1,2,2-Tetrachloroethane	ND	0.5	IP	#		н		*	
Surrogate: Dibromofluoromethane		104 %	75-17	25	,,	"	•	,,	
Surrogate: 1,2-Dichloroethane-d4		104%	75-12		n	"	"	n	
Surrogate: Toluene-d8		9.2 %	75-12		,,	,,	*	*	
Surrogate: 4-Bromofluorobenzene		102 %	75-12		"	"	"	*	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	R Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-30-5, 497cc (E710027-09) Vapor	Sampled: 09-Oct-07	Receive	d: 09-Oct	-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	P	и	*	*	a		
Vinyl chloride	ND	0.1	4			"	p	н	
Chloroethane	ND	0.5	н	*	ч		н		
Trichlorofluoromethane	ND	0.5	n	P	н		41		
1,1-Dichloroethene	61	0.5		"	•		n	•	
Methylene chloride	ND	0.5	11	ii .	н	11	•	Ħ	
Freon 113	14	0.5		16	н	н	•		
trans-1,2-Dichloroethene	ND	0.5	19	н	H	*		"	
1,1-Dichloroethane	1.5	0.5	16	н		11	**	•	
cis-1,2-Dichloroethene	ND	0.5			н	*	41	н	
Chloroform	0.6	0.1	н	n		•	н	н	
1.1.1-Trichloroethane	79	0.5	и	н		47	¥	n	
Carbon tetrachloride	ND	0.1			*	к	10		
1,2-Dichloroethane	ND	0.1	н	"		**	Ħ	•	
Benzene	0.3	0.1	P	и	11	Ħ		10	
Trichloroethene	71	0.1			•	•	и		
Toluene	ND	1.0		"	*	*1	н	ıı .	
1,1,2-Trichloroethane	ND	0.5	IP.	þ	*	ii	**	,	
Tetrachloroethene	53	0.1		"			ir	*	
Ethylbenzene	ND	1.0	4	*	и	*	В	19	
1, 1, 1, 2-Tetrachloroethane	ND	0.5	11	**	14	11	H	#	
m,p-Xylene	ND	1.0		"		B	19		
o-Xylene	ND	1.0	u	*	11	•	ti	*	
1,1,2,2-Tetrachloroethane	ND	0.5	"	"	"		м	*	
Surrogate: Dibromofluoromethane		105 %	75-1	25	"		#	n	
Surrogate: 1,2-Dichloroethane-d4		105 %	75-1		,,	**	,,	~	
Surrogate: Toluene-d8		101%	75-1		n	"	*	*	
Surrogate: 4-Bromofluorobenzene		101 %	75-1		"	*	"	"	



520 West 1st Street Tustin, CA 92780

Project: TRG100907-L4
Project Number: 7115 Phase 250
Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-30-15, 507cc (E710027-10) Vapor	Sampled: 09-Oct-0	7 Receiv	ed: 09-Oct	-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	*	"	*	Ħ	n		
Vinyl chloride	ND	0.1		•	•	41	"	н	
Chloroethane	ND	0.5	•	*	н	н	и		
Trichlorofluoromethane	ND	0.5		•	н		•	•	
1,1-Dichloroethene	0.5	0.5		(1	n	#	#	n	
Methylene chloride	ND	0.5	•		н	H	н	H	
Freon 113	ND	0.5	,		н	"	"	11	
trans-1,2-Dichloroethene	ND	0.5			n	#	"		
1,1-Dichloroethane	ND	0.5		н	n	n	R	н	
cis-1,2-Dichloroethene	ND	0.5	н	n	4	*1	#	4	
Chloroform	ND	0.1		"	"	11	*1	н	
1,1,1-Trichloroethane	0.5	0.5		rt .	"	41		n,	
Carbon tetrachloride	ND	0.1		16		n	*	•	
1,2-Dichloroethane	ND	0.1	*	P	н	•1	н	4	
Benzene	0.2	0.1	41		Ħ	,	**	н	
Trichloroethene	2.8	0.1				u	н	IP.	
Toluene	ND	1.0		н	19	н	*		
1,1,2-Trichloroethane	ND	0.5		11	п	n	**	4	
Tetrachloroethene	4.8	0.1	Ħ	10	н	ij		#	
Ethylbenzene	ND	1.0	4		н	n	41	Ħ	
1,1,1,2-Tetrachloroethane	ND	0.5		•	,,	4	н	и	
m,p-Xylene	ND	1.0		**		,		14	
o-Xylene	ND	1.0		11			"	19	
1,1,2,2-Tetrachloroethane	ND	0.5	"		H	(4			
Surrogate: Dibromofluoromethane		106 %	75-12	5	"	*	n	n	
Surrogate: 1,2-Dichloroethane-d4		108 %	75-12	-	n	n	,,	"	
Surrogate: Toluene-d8		102 %	75-12	_	**	"	,,	"	
Surrogate: 4-Bromofluorobenzene		100 %	75-12		**	,,	,,	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

The Month Godenemistry												
Analyte	R Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes			
SV-31-5, 497cc (E710027-11) Vapor	Sampled: 09-Oct-07	Receive	d: 09-Oc	:t-07								
1, 1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B				
Dichlorodifluoromethane	ND	0.5	**	"	47	11	"	ч				
Vinyl chloride	ND	0.1	н	**	4	н	н	B.				
Chloroethane	ND	0.5					**	11				
Trichlorofluoromethane	ND	0.5	#	19	11	*	"	н				
1,1-Dichloroethene	0.6	0.5	*	**	#	н	ıı	**				
Methylene chloride	ND	0.5		"	u	n	н	#				
Freon 113	ND	0.5	19		*	#	H	н				
trans-1,2-Dichloroethene	ND	0.5	10	,	*		н	*				
1,1-Dichloroethane	ND	0.5		14	**	**	11					
cis-1,2-Dichloroethene	ND	0.5		11	"	#f	"	41				
Chloroform	ND	0.1			н	11	И					
1,1,1-Trichloroethane	ND	0.5		п	4	"	Ħ					
Carbon tetrachloride	ND	0.1		"	u		"	*				
1,2-Dichloroethane	ND	0.1		*	11	4		н				
Benzene	0.2	0.1	н	*	*1	•	IF	u u				
Trichloroethene	2.0	0.1	•	4	Ħ	is .	Ħ	**				
Toluene	ND	1.0	*	4	lę.		D	"				
1,1,2-Trichloroethane	ND	0.5	41	n	*(н	If .	*				
Tetrachloroethene	1.5	0.1	**	11	p		II .	u				
Ethylbenzene	ND	1.0		н				u ·				
1,1,1,2-Tetrachloroethane	ND	0.5	0		II	n	н	**				
m,p-Xylene	ND	1.0	41	11	н	at	P	•				
o-Xylene	ND	1.0		H	*		**	H				
1,1,2,2-Tetrachloroethane	ND	0.5			14		H	**				
Surrogate: Dibromofluoromethane		106%	75-	125	"	*	•	"				
Surrogate: 1,2-Dichloroethane-d4		108 %		125	"	"	"	n				
Surrogate: Toluene-d8		99.2 %		125	"	"	"	**				
Surrogate: 4-Bromofluorobenzene		97.2 %		125	"	**	"	#				



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250

Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

		1 1/10	one Ge	Дисш	oti y				
Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-15, 507cc (E710027-12) Vapor	Sampled: 09-Oct-07	Receiv	ved: 09-O	:t-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	_
Dichlorodifluoromethane	ND	0.5	11		•		•	*	
Vinyl chloride	ND	0.1	+1	11	•		•	•	
Chloroethane	ND	0.5		*	10	4	*		
Trichlorofluoromethane	ND	0.5	II .		lt			*	
1,1-Dichloroethene	53	0.5	**	IP			#	*	
Methylene chloride	ND	0.5	**	**		+	•		
Freon 113	11	0.5	ı#				w		
trans-1,2-Dichloroethene	ND	0.5	11	ĸ	*	,	н	H	
1,1-Dichloroethane	ND	0.5	"	*	,	+		н	
cis-1,2-Dichloroethene	ND	0.5	*	11		4		н .	
Chloroform	0.3	0.1	h .	н	*		11	e	
1,1,1-Trichloroethane	30	0.5	**	n		и	•	#	
Carbon tetrachloride	ND	0.1	#	u•	H			*	
1,2-Dichlorocthane	ND	0.1	ji	н	*	19	11	11	
Benzene	0.1	0.1	*			**		•	
Trichloroethene	44	0.1	ıŧ	u	4	u	ц		
Toluene	ND	1.0	4	п		ıı	ıı	•	
1,1,2-Trichloroethane	ND	0.5	U	н	4				
Tetrachloroethene	16	0.1			н	D	11	•	
Ethylbenzene	ND	1.0	19	11	ĸ	4		н .	
1,1,1,2-Tetrachloroethane	ND	0.5	в	D	•	ч	11	4	
m,p-Xylene	ND	1.0				4		#	
o-Xylene	ND	1.0	I#		•	ц	11	•	
1,1,2,2-Tetrachloroethane	ND	0.5	•	*	H	"		<u> </u>	
Surrogate: Dibromofluoromethane		106 %	75-1	25	"	,,	,,	,,	
Surrogate: 1,2-Dichloroethane-d4		107 %	75-1		и	"	"	n	
Surrogate: Toluene-d8		101 %	75-1		**	ff	"	*	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-1		и	"	"	n	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

		1101 1110			<u> </u>		_		
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-31-15 DUP, 567cc (E710027-13) Vapor	Sampled	09-Oct-07	Received:	09-Oct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ70901	09-Oct-07	09-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	11	н	"	11	u		
Vinyl chloride	ND	0.1		•	4	It	**	•	
Chloroethane	ND	0.5	•	н	u	0	4		
Trichlorofluoromethane	ND	0.5	D	19	ú	•1			
1,1-Dichloroethene	53	0.5		**	"	IP .	*	#	
Methylene chloride	ND	0.5	и			*	#		
Freon 113	11	0.5			**	•			
trans-1,2-Dichloroethene	ND	0.5		Ħ	91	IP	**	u	
1,1-Dichloroethane	ND	0.5	н	b	u	10	17	11	
cis-1,2-Dichloroethene	ND	0.5	41	Ħ	я	41			
Chloroform	0.3	0.1		**			4	•	
1,1,1-Trichloroethane	29	0.5	u	11	II.	#	и	H .	
Carbon tetrachloride	ND	0.1	*	**	44	#	P		
1,2-Dichloroethane	ND	0.1		*1	IP.	P		"	
Benzene	0.1	0.1	•	11	u	#	н	*1	
Trichloroethene	41	0.1	41	•	*		P	4	
Toluene	ND	1.0	*	W	11	It	"	и	
1,1,2-Trichloroethane	ND	0.5		ч	U	#	#1	*1	
Tetrachloroethene	13	0.1	**	"	ч	W	If	ti .	
Ethylbenzene	ND	1.0		H	41	ıt	*	н	
1,1,1,2-Tetrachloroethane	ND	0.5		ıı	ĸ	"	*1	11	
m,p-Xylene	ND	1.0	41	u	н	H	11	н	
o-Xylene	ND	1.0	P	u	4	Ħ	U	**	
1,1,2,2-Tetrachloroethane	ND	0.5					••		
Surrogate: Dibromofluoromethane		104 %	75-	125	,,	•	"	n	
Surrogate: 1,2-Dichloroethane-d4		105 %		125	n	,,	"	"	
Surrogate: Toluene-d8		98.8 %	, -	125	rt	**	,,	n	
Surrogate: 1-0tuene-ao Surrogate: 4-Bromofluorobenzene		101 %		125 125	и	и	**	"	
Surroguie, 4-promojiuoropenzene		101 70	/)-	123					



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	R Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Note
SV-25-5, 497cc (E710033-01) Vapor	Sampled: 10-Oct-07	Receive	d: 10-Oc	t-07					
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	•	н,	*	•	11	*1	
Vinyl chloride	ND	0.2	11	n	4	9	*		
Chloroethane	ND	1.0	*	e	1 t		н	n	
Trichlorofluoromethane	ND	1.0	*1	11		н	*	11	
1,1-Dichloroethene	100	1.0	"1	0	•	•	11	R	
Methylene chloride	ND	1.0	**	"	н		м		
Freon 113	ND	1.0	n	u	*	W	•	и	
trans-1,2-Dichloroethene	ND	1.0		#		in .	ıı	н	
1,1-Dichloroethane	1.1	1.0	14	41		u	"	н	
cis-1,2-Dichloroethene	ND	1.0	u	11	*			H .	
Chiaroform	0.6	0.2	ы	1+				1P	
1,1,1-Trichloroethane	ND	1.0	н	n	u	*		н	
Carbon tetrachloride	ND	0.2	44	н	•	*	"	н .	
1,2-Dichloroethane	ND	0.2	•	н	4	17	11	H	
Benzene	0.3	0.2		ŧI	11	•	4	*	
Trichloroethene	48	0.2	D)	**	*		41		
Toluene	ND	2.0	u	n	H	•	*	н	
1,1,2-Trichloroethane	ND	1.0	u	p			н	H	
Tetrachloroethene	110	0.2		Þ	u	•		*	
Ethylbenzene	ND	2.0	**	It	н			**	
1,1,1,2-Tetrachloroethane	ND	1.0	*	Iŧ				•	
m,p-Xylene	ND	2.0	*1	н	**	н	u	**	
o-Xylene	ND	2.0	*1	n	4	H	II.		
1,1,2,2-Tetrachloroethane	ND	1.0	н	"		**	11	**	
Surrogate: Dibromofluoromethane		100%	75-	125	"	,,	,,	*	
Surrogate: 1,2-Dichloroethane-d4		85.6 %	75-		"	"	"	*	
Surrogate: Toluene-d8		83.6 %	75-	_	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	75-		"	"	n	,,	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes	
SV-25-15, 507cc (E710033-02) Vapor	Sampled: 10-Oct-07	Receiv	Received: 10-Oct-07							
1,1-Difluoroethane (LCC)	ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B		
Dichlorodifluoromethane	ND	1.0	*	41		Ħ	N			
Vinyl chloride	ND	0.2	*	n	"	17	**	#1		
Chloroethane	ND	1.0	"	**		*	**	**		
Trichlorofluoromethane	ND	1.0		11		•	н	•		
1,1-Dichloroethene	250	1.0	11	"	и	D	"	11		
Methylene chloride	ND	1.0	н	H	H		e	•		
Freon 113	2.0	1.0	19	l+	H		н	•		
trans-1,2-Dichloroethene	ND	1.0	**	11	**		v	11		
1,1-Dichloroethane	3.0	1.0	**	•	11		ħ	•		
cis-1,2-Dichloroethene	2.2	1.0	ч	и		H	н	#		
Chloroform	1.3	0.2	**	*1	11	n	D	11		
1,1,1-Trichloroethane	1.9	1.0		H	11	4				
Carbon tetrachloride	ND	0.2	"	**			10	11		
1,2-Dichloroethane	ND	0.2	4	**	#	D	t)	41		
Benzene	0.4	0.2	**	41	11	*	et .			
Trichloroethene	100	0.2	ti-	н	*		11	н		
Toluene	ND	2.0		41	н		p	41		
1,1,2-Trichloroethane	ND	1.0	•		**	"	91	•		
Tetrachloroethene	180	0.2	"	n		*	N	r		
Ethylbenzene	ND	2.0	pt	#	4	и	H	н		
1,1,1,2-Tetrachloroethane	ND	1.0		19	*	11	H.	n n		
m,p-Xylene	ND	2.0		P		4	н	•		
o-Xylene	ND	2.0	11	**			п	"		
1,1,2,2-Tetrachloroethane	ND	1.0	•		n	п		17		
Surrogate: Dibromofluoromethane		116%	75-	125	*	"	"	•		
Surrogate: 1,2-Dichloroethane-d4		104 %	75-		"	"	"	*		
Surrogate: Toluene-d8		101 %		125	#	t#	*	"		
Surrogate: 1 otuene-ao Surrogate: 4-Bromofluorobenzene		98.0 %	75-		"	,,	"	*		



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Re Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-24-15, 507cc (E710033-03) Vapor	Sampled: 10-Oct-07	Receiv	ed: 10-Oct	-07		· <u> </u>			
1,1-Difluoroethane (LCC)	ND ND	20	ug/l	0.1	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	1.0	н		н	ı	*1		
Vinyl chloride	ND	0.2		•			41	u u	
Chloroethane	ND	1.0		14		H	N .	tt.	
Trichlorofluoromethane	ND	1.0	ч	10	u	D	n	U .	
1,1-Dichloroethene	30	1.0	ч	*1	11	#	н	IF.	
Methylene chloride	ND	1.0	4	47	It	*	н	D	
Freon 113	ND	1.0	*1			•		H .	
trans-1,2-Dichloroethene	ND	1.0	"	11	D			le .	
1,1-Dichloroethane	ND	1.0	*1	•	11	*	и	u	
cis-1,2-Dichloroethene	8.2	1.0	e	*	P		и	11	
Chloroform	0.2	0.2		"	•		11	11	
1,1,1-Trichloroethane	ND	1.0		n	H			"	
Carbon tetrachloride	ND	0.2		н			47	H	
1,2-Dichloroethane	0.2	0.2	н	**	н	*	"		
Benzene	0.3	0.2	Ħ	н	ŧI.	11		41	
Trichloroethene	32	0.2			**	•	н	•	
Toluene	ND	2.0			н	•	H	n	
1,1,2-Trichloroethane	ND	1.0	H	p				H	
Tetrachloroethene	120	0.2	11	#	н	*	41	м	
Ethylbenzene	ND	2.0	*1	ai .	H	#	n	#1	
1,1,1,2-Tetrachloroethane	ND	1.0		*	н		•	н	
m,p-Xylene	ND	2.0			#	N	H	н	
o-Xylene	ND	2.0			*	*	н	и	
1,1,2,2-Tetrachloroethane	ND	1.0	"		N		"	I)	
Surrogate: Dibromofluoromethane		116%	75-12	25	*	,,	"	*	
Surrogate: 1,2-Dichloroethane-d4		101%	75-12		*	"	"	#	
Surrogate: Toluene-d8		77.2 %	75-12		•	"	"	,,	
Surrogate: 4-Bromofluorobenzene		25.6 %	75-12		,,	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	R Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-27-5, 497cc (E710033-04) Vapor	Sampled: 10-Oct-07	Receive	d: 10-Oct						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	ч	н	н	*	PI .	H	
Vinyl chloride	ND	0.1	н	*	*	*	•	*	
Chloroethane	ND	0.5	н	и			•	*	
Trichlorofluoromethane	ND	0.5				•		n	
1,1-Dichloroethene	88	0.5	μ	И	P	*		11	
Methylene chloride	ND	0.5	н	"	¥	*	•		
Freon 113	2.5	0.5	"	н	*	•	•	н	
trans-1,2-Dichloroethene	ND	0.5	н	и		и	**	n	
1,1-Dichloroethane	1.5	0.5	N	и			ii	h	
cis-1,2-Dichloroethene	ND	0.5	н	If	•1	•	ш	R	
Chloroform	0.6	0.1	н	lt .	ęı .	•	п	n .	
1,1,1-Trichloroethane	7.4	0.5	44	10	31	*	В		
Carbon tetrachloride	ND	0.1	**	IF	н		P	•	
1,2-Dichloroethane	ND	0.1	**	H	11	u .	P .		
Benzene	0.2	0.1	"	H	ıı	•	It	•	
Trichloroethene	50	0.1	"	n	н	10	IF.	*	
Toluene	ND	1.0	"	*	P		10	**	
1,1,2-Trichloroethane	ND	0.5	**	n	IP.			•	
Tetrachloroethene	66	0.1	*	"	*	*		•	
Ethylbenzene	ND	1.0	4	"		•	u		
1,1,1,2-Tetrachloroethane	ND	0.5	9	#1		*	it		
m,p-Xylene	ND	1.0	н	lr .	*		Ħ	•	
o-Xylene	ND	1.0	"	ır				•	
1,1,2,2-Tetrachloroethane	ND_	0.5	"	н			*		
Surrogate: Dibromofluoromethane		111%	75-1	25	Ħ	"	"	*	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	75-1	25	#	u	n	*	
Surrogate: Toluene-d8		94.8 %	75-1	25	#	"	"	*	
Surrogate: 4-Bromofluorobenzene		97.6%	75-1	25	"	"	"	W	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250

Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	R Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-27-15, 507cc (E710033-05) Vapor	Sampled: 10-Oct-07	Receiv	ed: 10-O	ct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	И	•	n	*	Ħ	4	
Vinyl chloride	ND	0.1	ır	19	*	Ħ	Ħ	н	
Chloroethane	ND	0.5	*	10	n	11	*	н	
Trichlorofluoromethane	ND	0.5	"			"	н	•	
1,1-Dichloroethene	140	0.5	"	u		**	H	*	
Methylene chloride	ND	0.5		IP.	4	**	#	**	
Freon 113	4.4	0.5	и	11-	u	•	st .	•	
trans-1,2-Dichloroethene	ND	0.5	n	4	11	п	#	4	
1,1-Dichloroethane	2.2	0.5	ĸ	11	*		D		
cis-1,2-Dichloroethene	ND	0.5	ч	*	•			•	
Chloroform	8.0	0.1	4	•			4		
1,1,1-Trichloroethane	10	0.5	"	IP	v	lt	и		
Carbon tetrachloride	ND	0.1	n	11	H	Ħ	п	*	
1,2-Dichloroethane	ND	0.1	H	**	*	Ħ	н	*	
Benzene	0.2	0.1	н	11	M	a		*	
Trichloroethene	68	0.1	,	**	•	н	H	*	
Toluene	ND	1.0	11	•		н	41		
1,1,2-Trichloroethane	ND	0.5	**	•		*	н		
Tetrachloroethene	74	0.1	*	H	,	*	*	D	
Ethylbenzene	ND	1.0	H	II*		н	*	•	
1,1,1,2-Tetrachloroethane	ND	0.5	16	41	н			•	
m,p-Xylene	ND	1.0	**	4		+	*	•	
o-Xylene	ND	1.0	**				4	•	
1,1,2,2-Tetrachloroethane	ND	0.5		le .	#	It	•		
Surrogate: Dibromofluoromethane		120 %	75-1	125	"	"	,,	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	75-7		*	,,	"	"	
Surrogate: Toluene-d8		102 %	75-7		,,	"	"	,,	
Surrogate: 4-Bromosluorobenzene		98.4 %	75-1		"	*	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

		1110	VIII () (Carcana	- • • · · · · ·				
Analyte	Result	Leporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-28-5, 497cc (E710033-06) Vapor	Sampled: 10-Oct-07	Receive	d: 10-Oc	:t-07				_	
1,1-Difluoroethane (LCC)	ND	10	ug/I	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		•	•	4	•	•	
Vinyl chloride	ND	0.1	•	•		**	•	n	
Chloroethane	ND	0.5	**		*	*1	•		
Trichlorofluoromethane	ND	0.5		•	*	"	11	•	
1,1-Dichloroethene	ND	0.5		•	•	11	4		
Methylene chloride	ND	0.5	•	•	41	n			
Freon 113	ND	0.5	**	11	· P	н	"	•	
trans-1,2-Dichloroethene	ND	0.5	**	4		IP	0		
1,1-Dichloroethane	ND	0.5	11	12	(1		10		
cis-1,2-Dichloroethene	ND	0.5		17			и	u	
Chloroform	ND	0.1	*	17		,			
1,1,1-Trichloroethane	ND	0.5	**	It		н			
Carbon tetrachloride	ND	0.1		18			•		
1,2-Dichloroethane	ND	0.1	•	18		H	**	•	
Benzene	0.2	0.1	"	11	P	*	11	н	
Trichloroethene	0.4	0.1	**	4		*	•	*	
Toluene	ND	1.0	11	**		**		n	
1,1,2-Trichloroethane	ND	0.5	**				n		
Tetrachloroethene	1.4	0.1	•	41			11	Ħ	
Ethylbenzene	ND	1.0	11	к	•		n	11	
1,1,2-Tetrachloroethane	ND	0.5	11			*	(1	11	
m,p-Xylene	ND	1.0	11			n	"	t t	
o-Xylene	ND	1.0	11		•	*		11	
1,1,2,2-Tetrachloroethane	ND	0.5	*		•	*		11	
Surrogate: Dibromofluoromethane		113 %	75-	125	a	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		102 %	<i>75</i> -	125	,,	"	"	"	
Surrogate: Toluene-d8		94.8 %	75-	125	"	"	"	n .	
Surrogate: 4-Bromofluorobenzene		96.4 %	75-	125	n	u	"	*	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	eporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-26-15, 507cc (E710033-07) Vapor	Sampled: 10-Oct-0	7 Receiv	ed: 10-0	ct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	*	н	н	•	4	H	
Vinyl chloride	ND	0.1	и	R	н	•	Ħ	n	
Chloroethane	ND	0.5	•	11		n	41	11	
Trichlorofluoromethane	ΝD	0.5	•	ěi.		•		•	
1,1-Dichloroethene	14	0.5	ıt	"	"	•		•	
Methylene chloride	ND	0.5			31		•	ų	
Freon 113	1.9	0.5	41	I*	**	ti .	н	н	
trans-1,2-Dichloroethene	ND	0.5	*1					ı,	
1,1-Dichloroethane	ND	0.5	•	ч		11	II	10	
cis-1,2-Dichloroethene	ND	0.5		н	P	•	"	IP .	
Chloroform	ND	0.1		**	и	•	•	H	
1,1,1-Trichloroethane	ND	0.5	н	n	11	•	"	н	
Carbon tetrachloride	ND	0.1	*	10	**	R	н	H	
1,2-Dichloroethane	ND	0.1	*1	н	"	Iř		N	
Benzene	0.2	0.1	19	11	n	*	10	N	
Trichloroethene	2.0	0.1	"	11	h	,	#	,	
Toluene	ND	1.0	ur .	**	Ħ	•	**	*	
1, 1,2-Trichloroethane	ND	0.5			u	ø			
Tetrachloroethene	11	0.1	41	18	*		p	IF.	
Ethylbenzene	ND	1.0	н	st.	"	U	D	11	
1,1,1,2-Tetrachloroethane	ND	0.5		4	u	11	Ħ	•	
m,p-Xylene	ND	1.0	*	н	н		**	*1	
o-Xylene	ND	1.0		11	*		н	16	
1,1,2,2-Tetrachloroethane	ND	0.5		H	н	h	н	16	
Surrogate: Dibromofluoromethane		119%	75-	125	"	n	**	"	
Surrogate: 1,2-Dichloroethane-d4		108 %	75-		"	"	,,	"	
Surrogate: Toluene-d8		104%	75-		n	*	•	"	
Surrogate: 4-Bromofluorobenzene		100%	75-		n	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-5, 497cc (E710033-08) Vapor	Sampled: 10-Oct-07	Receive	d: 10-Oct-	07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	" '	"	11	*		*1	
Vinyl chloride	ND	0.1	"	"	11			11	
Chloroethane	ND	0.5	u	**	II	*	n	11	
Trichlorofluoromethane	ND	0.5	"	11	п	•	н	11	
1,1-Dichloroethene	0.9	0.5		4	II .	н	И	Ħ	
Methylene chloride	ND	0.5	4	"	*1	•	0	•	
Freon 113	0.7	0.5	H .	**	11	*		*	
trans-1,2-Dichloroethene	ND	0.5		4	11	**	"	*	
I,1-Dichloroethane	ND	0.5	**	*1	11		10	*	
cis-1,2-Dichloroethene	ND	0.5	*1	•	н	"	10	rr ·	
Chloroform	0.2	0.1	**	#	×			•	
1,1,1-Trichloroethane	1.1	0.5	•	н	н		11	*	
Carbon tetrachloride	ND	0.1	•1	н	*	n		*	
1,2-Dichloroethane	ND	0.1	41	Ħ	•		u.	*	
Benzene	0.2	0.1	*	н	*1	p	10	•	
Trichloroethene	5.4	0.1		**	+	*	и	u	
Toluene	ND	1.0	*	n	**	**	11	19	
1, 1,2-Trichloroethane	ND	0.5		11	,	ıı	H	n	
Tetrachloroethene	22	0.1	•	10	n	#	n	r r	
Ethylbenzene	ND	1.0	•	11	"	#	н	II*	
1,1,1,2-Tetrachloroethane	ND	0.5	•	**	**	*	н	41	
m,p-Xylene	ND	1.0		"		*	#1	"	
o-Xylene	ND	1.0		17	•		н	II .	
1,1,2,2-Tetrachloroethane	ND	0.5			10		н	н	
Surrogate: Dibromofluoromethane		116%	75-12	5	"	,,	,,	"	
Surrogate: 1,2-Dichloroethane-d4		109 %	75-12	-	"	"	"	*	
Surrogate: Toluene-d8		99.6 %	75-12	-	"	*	"	"	
Surrogate: 4-Bromofluorobenzene		96.0 %	75-12	_	"	*	**	n	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-15, 507ce (E710033-09) Vapor	Sampled: 10-Oct-07	Receiv	/ed: 10-Oct	t-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	D	*	•	**	"	п	
Vinyl chloride	ND	0.1	•	•		tt	"	,	
Chloroethane	ND	0.5	**	н	н	41	"	н	
Trichlorofluoromethanc	ND	0.5	•	"	H		•	н	
1,1-Dichloroethene	1.0	0.5	P	**	п	4	41	4	
Methylene chloride	ND	0.5	•					•	
Freon 113	0.9	0.5	41	H	11	4	*	"	
trans-1,2-Dichloroethene	ND	0.5		10	•	н		,	
1,1-Dichloroethane	ND	0.5	II	"	н	u u	*		
cis-1,2-Dichloroethene	ND	0.5		P	Ħ	ı	n	*	
Chloroform	0.2	0.1	н	"	4	11	"	*	
1,1,1-Trichloroethane	1.1	0.5			н	11	н	4	
Carbon tetrachloride	ND	0.1				н		u .	
1,2-Dichloroethane	ND	0.1	и	**	н	a	4	н	
Benzene	0.2	0.1		It	R	10	11	u	
Trichloroethene	6.3	0.1	41	*1	14	•	*	**	
Toluene	ND	1.0	•	ч	ır	II		D	
1,1,2-Trichloroethane	ND	0.5	•	n,	**	17		w	
Tetrachloroethene	21	0.1	н	•	11	jı .	10		
Ethylbenzene	ND	1.0		10		11		4	
1,1,1,2-Tetrachloroethane	ND	0.5		"	41	11	"	11	
m,p-Xylene	ND	1.0		n		p.	•	**	
o-Xylene	ND	1.0	•	*	•	"	**	4	
1,1,2,2-Tetrachloroethane	ND	0.5	*	,		ı,			
Surrogate: Dibromofluoromethane		119%	75-1	25	*	12	*	W	
Surrogate: Dioromojitioromethane Surrogate: 1,2-Dichloroethane-d4		107%	75-1. 75-1.		,,	,,	,,	"	
Surrogate: Toluene-d8		107%	75-1. 75-1.		,,	,,	,,	<i>H</i>	
					,,	n	 n	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-1.	25	n	n	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
SV-29-5 DUP, 557cc (E710033-10) Vapor	Sampled: 1	0-Oct-07 R	eceived:	10-Oct-07					
I,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71001	10-Oct-07	10-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		н	*1	*	#	и	
Vinyl chloride	ND	0.1	n	0	"	•	"	4	
Chloroethane	ND	0.5	н	и	Ħ	11	"	**	
Trichlorofluoromethane	ND	0.5	**	м	11	19		II .	
1,1-Dichloroethene	8.0	0.5	D	n	II	•	**	H	
Methylene chloride	ND	0.5	*1	*1	н	11	17	n	
Freon 113	0.7	0.5	**		*1	D	•	41	
trans-1,2-Dichloroethene	ND	0.5	19	•	4	•	11	n	
1,1-Dichloroethane	ND	0.5	41	h	10	tl .	If	n	
cis-1,2-Dichloroethene	ND	0.5	•	1+	"	•	N	11	
Chloroform	0.2	0.1	н	1	1¢	•	#	H	
1,1,1-Trichloroethane	1.0	0.5	*	н	*1	*	H	H	
Carbon tetrachloride	ND	0.1	H			•	n		
1,2-Dichloroethane	ND	0.1		н	*	4	н	#	
Benzene	0.3	0.1	**	"	Ħ	11	el	H	
Trichloroethene	5.2	0.1	10	*	H	*	#1	41	
Toluene	ND	1.0		и	н	н	**		
1,1,2-Trichloroethane	ND	0.5	ı	14	n	•	91	"	
Tetrachloroethene	23	0.1	"	4	16	Ħ	n	н	
Ethylbenzene	ND	1.0	н	н	**			p	
1, 1, 1, 2-Tetrachloroethane	ND	0.5	11		п	•	**		
m,p-Xylene	ND	1.0		*1	11	4	•	19	
o-Xylene	ND	1.0	4		ıı			•	
1,1,2,2-Tetrachloroethane	ND	0.5		*			D		
Surrogate: Dibromofluoromethane		124%	75-	125		"	Ħ	*	
Surrogate: 1,2-Dichloroethane-d4		113 %	75-	125	"	"	*	"	
Surrogate: Toluene-d8		104%	75-	125	0	"	"	"	
Surrogate: 4-Bromofluorobenzene		103 %	75-	125	**	H	*	•	



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ70901 - EPA 5030										
Blank (EJ70901-BLK1)				Prepared	& Analyze	d: 09-Oct	-07			
I, I-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	tr							
Vinyl chloride	ND	0.1	11							
Chloroethane	ND	0.5	P							
Frichlorofluoromethane	ND	0.5	H .							
1,1-Dichloroethene	ND	0.5	IF							
Methylene chloride	ND	0.5	н							
Freon 113	ND	0.5	н							
trans-1,2-Dichloroethene	ND	0.5	н							
1,1-Dichloroethane	ND	0.5	*							
cis-1,2-Dichloroethene	ND	0.5								
Chloroform	ND	0.1								
1,1,1-Trichloroethane	ND	0.5								
Carbon tetrachloride	ND	0.1	**							
1,2-Dichloroethane	ND	0.1								
Benzene	ND	0.1	n							
Frichloroethene	ND	0.1	11							
Γoluene	ND	1.0	**							
1,1,2-Trichloroethane	ND	0.5	*							
Tetrachloroethene	ND	0.1								
Ethylbenzene	ND	1.0	*							
1,1,1,2-Tetrachloroethane	ND	0.5	н							
m,p-Xylene	ND	1.0	u							
-Xylene	ND	1.0								
1,1,2,2-Tetrachloroethane	ND ND	0.5	**							
Surrogate: Dibromofluoromethane	2.48		"	2.50		99.2	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.48		"	2.50		99.2	75-125			
Surrogate: Toluene-d8	2.54		*	2.50		102	75-125			
Surrogate: 4-Bromofluorobenzene	2.44		*	2.50		97.6	75-125			



520 West 1st Street Tustin, CA 92780 Project: TRG100907-L4

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 16-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ71001 - EPA 5030		_								
Blank (EJ71001-BLK1)				Prepared	& Analyze	d: 10-Oct	-07			
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	"							
Vinyl chloride	ND	0.1	"							
Chloroethane	ND	0.5	41							
Trichlorofluoromethane	ND	0.5	•							
1,1-Dichloroethene	ND	0.5								
Methylene chloride	ND	0.5								
Freon 113	ND	0.5	11							
trans-1,2-Dichloroethene	ND	0.5	4							
1,1-Dichloroethane	ND	0.5	4							
cis-1,2-Dichloroethene	ND	0.5	*							
Chloroform	ND	0.1	4							
1,1,1-Trichloroethane	ND	0.5	*							
Carbon tetrachloride	ND	0.1								
1,2-Dichloroethane	ND	0.1								
Benzene	ND	0.1								
Trichloroethene	ND	0.1								
Toluene	ND	1.0	Ht .							
1,1,2-Trichloroethane	ND	0.5	ч							
Tetrachloroethene	ND	0.1	**							
Ethylbenzene	ND	1.0	"							
1,1,1,2-Tetrachloroethane	ND	0.5	**							
m,p-Xylene	ND	1.0	•							
o-Xylene	ND	1.0	•							
1,1,2,2-Tetrachloroethane	ND	0.5	•							
Surrogate: Dibromofluoromethane	2.69		*	2.50		108	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.30		"	2.50		92.0	75-125			
Surrogate: Toluene-d8	2.40		"	2.50		96.0	75-125			
Surrogate: 4-Bromofluorobenzene	2.38		p	2.50		95.2	75-125			



20071030 HTP resorts

30 October 2007

Mr. John Cleary The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780

RE: TRG101807-11

Enclosed are the results of analyses for samples received by the laboratory on 18-Oct-07. If you have any questions concerning this report, please feel free to contact me.

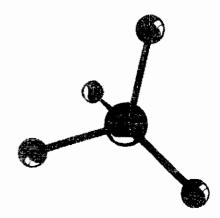
Sincerely,

Janis Villarreal

Laboratory Director

an K.

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.





Project: TRG101807-11

520 West 1st Street Tustin, CA 92780 Project Number: 7115

Reported: 30-Oct-07

Project Manager: Mr. John Cleary

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VEW6-25', P135.4L	E710074-01	Vapor	18-Oct-07	18-Oct-07
VEW5-5', P28.1L	E710074-02	Vapor	18-Oct-07	18-Oct-07
VEW5-15', P71.4L	E710074-03	Vapor	18-Oct-07	18-Oct-07
VEW5-25', P114.6L	E710074-04	Vapor	18-Oct-07	18-Oct-07
VEW5-60', P266.1L	E710074-05	Vapor	18-Oct-07	18-Oct-07
Trip Blank	E710074-06	Vapor	18-Oct-07	18-Oct-07



520 West 1st Street Tustin, CA 92780

Project: TRG101807-11

Reported:

Project Number: 7115
Project Manager: Mr. John Cleary

30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Note
VEW6-25', P135.4L (E710074-01) Vapor	Sampled: 1	8-Oct-07 R	eceived: 18	8-Oct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
Propene	ND	500	ug/m³ Air	**	•	*	#	•	
Dichlorodifluoromethane	ND	500	•	н	•	H	•	•	
Chloromethane	ND	250	*	*	н	•	41	•	
Dichlorotetrafluoroethane	ND	500		**	•	*	4	•	
Vinyl chloride	ND	250	H	н	H		*		
1,3-Butadiene	ND	250	H		×	*	н	•	
Bromomethane	ND	250		*	•	10	*	•	
Chloroethane	ND	250	*	н	•	r	H		
Trichlorofluoromethane	ND	250	#	*	н	•	ч	•	
Acetone	93000	1000		*			H		I
1,1-Dichloroethene	2500	250		н		•	•		
1,1,2-Trichlorotrifluoroethane	ND	500		Ħ	*	•	**	•	
Methylene chloride	ND	250		**		10	•		
Carbon disulfide	ND	250		10	н	H		•	
trans-1,2-Dichloroethene	ND	250	10	**	н		ч	*	
Methyl tert-butyl ether	ND	250		**		*		•	
Vinyl acetate	ND	250	u	и	4		*	•	
1,1-Dichloroethane	ND	250	0	**	19	#1	#	•	
2-Butanone	180000	250	11	"	•	11			1
n-Hexane	ND	250			•	,	w	•	
cis-1,2-Dichloroethene	ND	250		•1	н	•	*	*	
Ethyl acetate	ND	250	*	H		*			
Chloroform	ND	250	*					•	
Tetrahydrofuran	690000	250	n	41	н	*	н	*	1
1,1,1-Trichloroethane	440	250	и		*	**	•		
1,2-Dichloroethane	ND	250		н	*	"	*	•	
Benzene	ND	250	•	*			H		
Carbon tetrachloride	ND	250	Ħ	н	*	11			
Cyclohexane	ND	250		н		10	я	•	
n-Heptane	ND	250	tr	#1	и	W	п	•	
Trichloroethene	9100	250	10	9		u	n		
1,2-Dichloropropane	ND	250		**	н	#	U		
1,4-Dioxane	ND	250	4	14	q	н	н		
Bromodichloromethane	ND	250	*1		It		11	Ħ	
cis-1,3-Dichloropropene	ND	250	•	**	Į.	**	¥		
4-Methyl-2-pentanone	ND	250		**	•	•	"	#	
trans-1,3-Dichloropropene	ND	250	•	n	11	**	•	•	



520 West 1st Street Tustin, CA 92780

Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-25', P135.4L (E710074-01) Vapor	Sampled: 1	8-Oct-07 R	eceived: 1	8-Oct-07					
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250		NT .	*1	11		•	
2-Hexanone	ND	500	*		H	"	•	•	
Dibromochloromethane	ND	250	•	#	P	н	11	•	
Tetrachioroethene	8500	250	•	n	•	n	H	•	
1,2-Dibromoethane (EDB)	ND	250	*	10	u	W	11	•	
Chlorobenzene	ND	250	"	11	It	#	•	•	
Ethylbenzene	ND	250	**	ıŧ	*	tr		•	
m,p-Xylene	ND	250		11	P	16	at	•	
Styrene	ND	250	er .	U	"	11			
o-Xylene	ND	250				۳		•	
Bromoform	ND	1000	•	н	*	*		•	C-07
1,1,2,2-Tetrachioroethane	ND	250		11		*		•	C-07
4-Ethyltoluene	ND	250	17	N	4	r	4	•	
1,3,5-Trimethylbenzene	ND	250	•	te	4	*	•	•	C-07
1,2,4-Trimethylbenzene	ND	250	u	н	•		*	•	C-07
1,3-Dichlorobenzene	ND	500	#	н	•		•	*	C-07
Benzyl chloride	ND	250		ĸ	*			•	C-07
1,4-Dichlorobenzene	ND	500		н	*		**	•	C-07
1,2-Dichlorobenzene	ND	500	*	n	н	•	ır	•	C-07
1,2,4-Trichlorobenzene	ND	500		#	Ħ		•	•	C-07
Hexachlorobutadiene	1400	500		n	н			-	C-07, QL-1H
Surrogate: Toluene-d8		99.2 %	80-	120	•		н		
Surrogate: 4-Bromosluorobenzene		86.3 %	<i>80- .</i>	120	*	*	"	"	



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520 West 1st Street Tustin, CA 92780 Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-5', P28.1L (E710074-02) Vapor	Sampled: 18-O	ct-07 Rec	eived: 18-0	Oct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	1000	500	ug/m³ Air	v	11		*	•	
Dichlorodifluoromethane	ND	500	*	*		w	•	•	
Chloromethane	ND	250	*	*	11	ut.	*	•	
Dichlorotetrafluoroethane	ND	500		ч			*	•	
Vinyl chloride	ND	250	4	н	11	ŧŧ		•	
1,3-Butadiene	ND	250	n	*		4	•	•	
Bromomethane	ND	250	**	*	*	11			
Chloroethane	ND	250	*	•		#	H	*	
Trichlorofluoromethane	ND	250	*	W	17	11	•	•	
Acetone .	ND	1000		Ħ	н	41	•	•	
1,1-Dichloroethene	3100	250	41	н	•	10		•	
1,1,2-Trichlorotrifluoroethane	630	500	н	*		*	•	**	
Methylene chloride	ND	250	tr	tr	111	11	н	Ħ	
Carbon disulfide	ND	250			u	и	н		
trans-1,2-Dichloroethene	ND	250		9	•	11	•	•	
Methyl tert-butyl ether	ND	250	в		u	P		#	
Vinyl acetate	ND	250	11	tł.	•	11	п		
1,1-Dichloroethane	ND	250	11		19			н	
2-Butanone	3600	250	"	4		w			
n-Hexane	ND	250	*		•	4	**	•	
cis-1,2-Dichloroethene	ND	250		*		*			
Ethyl acetate	ND	250	н	4	*	н	**	•	
Chloroform	ND	250			u	ĸ			
Tetrahydrofuran	13000	250				ч	*		
1,1,1-Trichloroethane	1300	250	*		"				
1,2-Dichloroethane	ND	250		*		н	*		
Benzene	ND	250	u	н	**	н	9		
Carbon tetrachloride	ND	250	н			н			
Cyclohexane	ND	250		#		н	11	*	
n-Heptane	ND	250	*			*			
Trichloroethene	8200	250	14	*		н	**		
1,2-Dichloropropane	ND	250	н	н		•			
1,4-Dioxane	ND	250	10		H				
Bromodichloromethane	ND	250	и	#					
cis-1,3-Dichloropropene	ND ND	250	11	,,			,		
4-Methyl-2-pentanone				и н	,				
rans-1,3-Dichloropropene	ND ND	250 250			•		*		



520 West 1st Street

Project: TRG101807-11

Project Number: 7115

Reported:

Tustin, CA 92780

Project Manager: Mr. John Cleary

30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-5', P28.1L (E710074-02) Vapor	Sampled: 18-	Oct-07 Rec	eived: 18-0	Oct-07					
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	**	10	#	**		*	
2-Hexanone	ND	500	11	11	*	U .	•	•	
Dibromochloromethane	ND	250	**	14	17	*	*		
Tetrachloroethene	12000	250	"	11	w	п		4	
1,2-Dibromoethane (EDB)	ND	250	**	u		H	•		
Chlorobenzene	ND	250	n	h	н	4	ıı	4	
Ethylbenzene	ND	250	11	*		ı,		•	
m,p-Xylene	ND	250	*		*	#		*	
Styrene	ND	250	**	"		**	•	•	
o-Xylene	ND	250	u			17		**	
Bromoform	ND	1000	*	н	n	H	41	11	C-07
1,1,2,2-Tetrachloroethane	ND	250	H	44	•	н	11		C-07
4-Ethyltoluene	ND	250	*	#		H			
1,3,5-Trimethylbenzene	ND	250	H	н	•	•	4	•	C-07
1,2,4-Trimethylbenzene	ND	250	×			,	to to	*	C-07
1,3-Dichlorobenzene	ND	500	н	H	41	4	*	•	C-07
Benzyl chloride	ND	250	*	11	*	n	4	•	C-07
1,4-Dichlorobenzene	ND	500	•	н	4	*	*	•	C-07
1,2-Dichlorobenzene	ND	50 0	•	4	•	•	**	•	C-07
1,2,4-Trichlorobenzene	ND	500	*		*	×		•	C-07
Hexachlorobutadiene	ND_	500			<u> </u>			*	
Surrogate: Toluene-d8		99.9 %	80-	120	"	*	u	"	
Surrogate: 4-Bromofluorobenzene		83.5 %	80-	120	**	•	*	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Note
VEW5-15', P71.4L (E710074-03) Vapor	Sampled: 18	-Oct-07 Re	ceived: 18	-Oct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	1300	500	ug/m³ Air	*	*	4	•	17	
Dichlorodifluoromethane	ND	500	#	и.	•	•	•		
Chloromethane	ND	250	н	н	*	•	*	Ħ	
Dichlorotetrafluoroethane	ND	500	H	н	#	H	•	#	
Vinyl chloride	ND	250	*	49	*	*	**	11	
1,3-Butadiene	ND	250	*	•	•	Ħ			
Bromomethane	ND	250	•	**	**		•	N	
Chloroethane	ND	250	*	I+	Ħ	н	#	17	
Trichlorofluoromethane	ND	250	H	H	*1	я		· ·	
Acetone	1100	1000	•	**	4	n	*	*	
1,1-Dichloroethene	7800	250	1P	11		**	*		
1,1,2-Trichlorotrifluoroethane	1600	500	n	н	**	"	*	**	
Methylene chloride	ND	250		11	91		*		
Carbon disulfide	ND	250	*	0	*	*	*	•	
trans-1,2-Dichloroethene	ND	250	n	ıı	•	н		*	
Methyl tert-butyl ether	ND	250		u		ц	10	н	
Vinyl acetate	ND	250	11	17		*	19		
1,1-Dichloroethane	360	250	н	н	u	W	*		
2-Butanone	660	250	н	"	**	n	*		
n-Hexane	ND	250	tr	•	19	**		*	
cis-1,2-Dichloroethene	ND	250	н	u	**	44		*	
Ethyl acetate	ND	250	и	u	11				
Chloroform	270	250	e e	19		*		•	
Tetrahydrofuran	2200	250	11	10	H			4	
1,1,1-Trichloroethane	1500	250	н	•					
1,2-Dichloroethane	ND	250	*	11	ti .	и			
Benzene	ND	250	10	H	•		•		
Carbon tetrachloride	ND	250	н		e	19			
Cyclohexane	ND	250	11		в	•			
n-Heptane	ND	250	10	,	H	и	H		
Trichloroethene	13000	250	11			•			
1,2-Dichloropropane	ND	250	14	*		*			
1,4-Dioxane	ND	250	H		*				
Bromodichloromethane	ND	250	**	#1	*	4			
cis-1,3-Dichloropropene	ND ND	250	10	10		11			
4-Methyl-2-pentanone	ND ND	250 250			u			H	
trans-1,3-Dichloropropene			 N						
a ans-1,5-1,1entor opropene	ND	250	2				•	-	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-11

Project Number: 7115

Reported: 30-Oct-07

Project Manager: Mr. John Cleary

Volatile Organic Compounds by EPA TO-15

		D			<i>y</i>				
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-15', P71.4L (E710074-03) Vapor	Sampled: 18	-Oct-07 Re	ceived: 18	-Oct-07	_				
Toluene	330	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250	"	n	H		4		
2-Hexanone	ND	500	#		11	*	U	*	
Dibromochloromethane	ND	250	14	ıı.	ıı	4	#		
Tetrachloroethene	19000	250	ı,	41	*		и		
1,2-Dibromoethane (EDB)	ND	250	11	v	н		•	•	
Chlorobenzene	ND	250	•	×	н	#	н	*	
Ethylbenzene	ND	250		*	4		н	•	
m,p-Xylene	ND	250	ч			19	•		
Styrene	ND	250	Н	к		н	н	*	
o-Xylene	ND	250	H		*		+		
Bromoform	ND	1000	"		•		•	•	C-07
1,1,2,2-Tetrachloroethane	ND	250	"	"	H	*	#	17	C-07
4-Ethyltoluene	ND	250	11	*	•	•	*	"	
1,3,5-Trimethylbenzene	ND	250	#		•	*	•	•	C-07
1,2,4-Trimethylbenzene	ND	250	10	H	н	Ħ	H	w	C-07
1,3-Dichlorobenzene	ND	500	ıt	**	•	•	*		C-07
Benzyl chloride	ND	250	*	•	*		•	×	C-07
1,4-Dichlorobenzene	ND	500	*	*	10	4	•	•	C-07
1,2-Dichlorobenzene	ND	500	н.	10	0	**	*		C-07
1,2,4-Trichlorobenzene	580	500	н	*1	4	н	•		C-07, QL-1H
Hexachlorobutadiene	1500	500	*				, P	•	C-07, QL-1H
Surrogate: Toluene-d8		98.8 %	80-	120	•	,,	#	*	
Surrogate: 4-Bromofluorobenzene		81.9 %	80-	120	"	"	#	"	



Project: TRG101807-11

520 West 1st Street Tustin, CA 92780 Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25', P114.6L (E710074-04) Vapor	Sampled:	18-Oct-07 R	Received: 1	8-Oct-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	ND	500	ug/m³ Air	19	\$ 1	*	*	•	
Dichlorodifluoromethane	ND	500	11	17	91	*	42	*	
Chloromethane	ND	250	ų	**	41	*		•	
Dichlorotetrafluoroethane	ND	500	**	**	**	*	•	•	
Vinyl chloride	ND	250	**	41	11	۳		*	
1,3-Butadiene	ND	250	•		H	11	•	•	
Bromomethane	ND	250		*1	H	**	н	•	
Chloroethane	ND	250		lt .	н	н	**	•	
Trichloro fluoromethane	ND	250		n	11		-		
Acetone	ND	1000	•	"	19				
1,1-Dichloroethene	11000	250	*	**	11		79		
1,1,2-Trichlorotrifluoroethane	1600	500	*	w	41	н			
Methylene chloride	ND	250	11	11	a		*	•	
Carbon disulfide	ND	250	•	**			•	•	
trans-1,2-Dichloroethene	ND	250	*	**		10		4	
Methyl tert-butyl ether	ND	250		**	и	11		•	
Vinyl acetate	ND	250	•	**	Ħ	11		•	
1,1-Dichloroethane	ND	250		и	10		•		
2-Butanone	ND	250		10	51	*1		•	
n-Hexane	ND	250	11		11	н	*		
cis-1,2-Dichloroethene	ND	250	**		11		•		
Ethyl acetate	ND	250	*	0	u.	11			
Chloroform	ND	250		**	н	11		•	
Tetrahydrofuran	1200	250			н	41			
1,1,1-Trichloroethane	970	250							
1,2-Dichloroethane	ND	250		11	19		*		
Benzene	ND	250	**		9				
Carbon tetrachloride	ND	250		17			w		
Cyclohexane	ND	250			W	*			
п-Нертапе	ND	250 250)	u				
Trichloroethene	17000	250	•	14	*	,,			
1,2-Dichloropropane	ND	250 250	#		0		,,	•	
1,4-Dioxane	ND	250	,	**			,		
Bromodichloromethane	ND ND	250 250			н	*	*		
cis-1,3-Dichloropropene				,					
	ND	250		,					
4-Methyl-2-pentanone	ND	250					_	-	
trans-1,3-Dichloropropene	ND	250	•	*	**		•	•	



520 West 1st Street Tustin, CA 92780

Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25', P114.6L (E710074-04) Vapor	Sampled:	18-Oct-07 R	leceived: I	8-Oct-07					
Toluene	ND	250	ug/m³ Air	50	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	250		17	"	н	19	•	
2-Hexanone	ND	500	*	19	н	k	н		
Dibromochloromethane	ND	250		10	11	H	**		
Tetrachloroethene	16000	250	4	17		*	н	*	
1,2-Dibromoethane (EDB)	ND	250	•	10	le .	11	**		
Chlorobenzene	ND	250		17	н	11	H	•	
Ethylbenzene	ND	250	14	41	41	#		•	
m,p-Xylene	ND	250	"	**	Ħ	H	4	*	
Styrene	ND	250		n	*	۳			
o-Xylene	ND	250	19		*	*			
Bromoform	ND	1000	*			*		•	C-07
1,1,2,2-Tetrachloroethane	ND	250	×	н	н	*			C-07
4-Ethyltoluene	ND	250	*	•	н			•	
1,3,5-Trimethylbenzene	ND	250	п	**	H		-	•	C-07
1,2,4-Trimethylbenzene	ND	250	•	н	н				C-07
1,3-Dichlorobenzene	ND	500	•		**	•		•	C-07
Benzyl chloride	ND	250		•	н			*	C-07
1,4-Dichlorobenzene	ND	500			н	n		*	C-07
1,2-Dichlorobenzene	ND	500	•		H		•	•	C-07
1,2,4-Trichlorobenzene	ND	500	#		H	*	•		C-07
Hexachlorobutadiene	ND	500	н	<u> </u>	*	*	•	•	C-07
Surrogate: Toluene-d8		100 %	80-	120	"	"	R	*	
Surrogate: 4-Bromofluorobenzene		80.2 %	80-	120	**	*	"	"	



520 West 1st Street Tustin, CA 92780

Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit		Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-60', P266.1L (E710074-05) Vapor	Sampled:	18-Oct-07 I	Received: 1	8-Oct-07					
1,1-Difluoroethane (LCC)	ND	10		1000	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
Propene	ND	10000					11	•	
Dichlorodifluoromethane	ND	10000		10	*	н		•	
Chloromethane	ND	5000		н	•		N	•	
Dichlorotetrafluoroethane	ND	10000	11		•	н	9	*	
Vinyl chloride	ND	5000	4	н	•	*		*	
1,3-Butadiene	ND	5000	4		•	*	"	•	
Bromomethane	ND	5000	II		*	*	11	•	
Chloroethane	ND	5000	н	•	*	*	*		
Trichiorofluoromethane	ND	5000		*1	•		10	•	
Acetone	ND	20000	*	*			17		
1,1-Dichloroethene	150000	5000	*	*	•	*	10	•	
1,1,2-Trichlorotrifluoroethane	14000	10000		*	*	•	"		
Methylene chloride	ND	5000			н	H	44	*	
Carbon disulfide	ND	5000			•	*	n	•	
trans-1,2-Dichloroethene	ND	5000			•	×	×		
Methyl tert-butyl ether	ND	5000		н			11		
Vinyl acetate	ND	5000			н	*	•		
1,1-Dichloroethane	ND	5000		u	n		u	•	
2-Butanone	ND	5000		H			11	•	
n-Hexane	ND	5000			**	•	*	•	
cis-1,2-Dichloroethene	ND	5000			•		**	•	
Ethyl acetate	ND	5000			n	n	17		
Chloroform	ND	5000		*	,		18		
Tetrahydrofuran	ND	5000		*	n	•	*	•	
1.1.1-Trichloroethane	32000	5000		4	10	*			
1,2-Dichloroethane	ND	5000		41		4		•	
Benzene	ND	5000		*	11	11	и	•	
Carbon tetrachloride	ND	5000		*	н		N		
Cyclohexane	ND	5000				ĸ		•	
n-Heptane	ND	5000		*		и		*	
Trichloroethene	570000	5000		*	н	*	•		
1,2-Dichloropropane	ND	5000						•	
1,4-Dioxane	ND	5000		10	и	и	11		
Bromodichloromethane	ND	5000			н	*	#1	•	
cis-1,3-Dichloropropene	ND	5000		*		*	•	•	
4-Methyl-2-pentanone	ND	5000		*		*	**	*	
trans-1,3-Dichloropropene	ND	5000		*		×	n	•	
		0000							



520 West 1st Street Tustin, CA 92780 Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-60', P266.1L (E710074-05) Vapor	Sampled:	18-Oct-07 R	leceived: 1	8-Oct-07					
Toluene	ND	5000	ug/m³ Air	1000	EJ72302	19-Oct-07	20-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5000		**		9	,	•	
2-Hexanone	ND	10000	at .	**	v	**	•	*	
Dibromochloromethane	ND	5000	4	O	,	11			
Tetrachloroethene	140000	5000	er er	10	4	4	•	•	
1,2-Dibromoethane (EDB)	ND	5000	*	**	11	"	•		
Chlorobenzene	ND	5000		11	11	"			
Ethylbenzene	ND	5000		**	"	n	*	•	
m,p-Xylene	ND	5000		н			17	*	
Styrene	ND	5000	•	ы	Ħ	*	•	•	
o-Xylene	ND	5000			41	4	•	•	
Bromoform	ND	20000	•		•	•			C-07
1,1,2,2-Tetrachloroethane	ND	5000	•	•				•	C-07
4-Ethyltoluene	ND	5000		н	H		H	17	
1,3,5-Trimethylbenzene	ND	5000		*				•	C-07
1,2,4-Trimethylbenzene	ND	5000			к		*	9	C-07
1,3-Dichlorobenzene	ND	10000			M		*	*	C-07
Benzyl chloride	ND	5000	*			•	•	•	C-07
1,4-Dichlorobenzene	ND	10000		*	*	н	u	•	C-07
1,2-Dichlorobenzene	ND	10000			*	н	*	*	C-07
1,2,4-Trichlorobenzene	ND	10000	•	*		•			C-07
Hexachlorobutadiene	ND	10000	¥		**	*		•	C-07
Surrogate: Toluene-d8		100 %	80-1	120	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		77.5 %	80-1	20	p	*	**	"	S-04



520 West 1st Street Tustin, CA 92780 Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E710074-06) Vapor	Sampled: 18-Oct-07	Received:	18-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
Propene	ND	10	ug/m³ Air	**	19	tt		•	
Dichlorodifluoromethane	ND	10	W	н	u	•	19		
Chloromethane	ND	5.0	**	11	**	**			
Dichlorotetrafluoroethane	ND	10	11	H	•	#		•	
Vinyl chloride	ND	5.0	0	10	**	*	*		
1,3-Butadiene	ND	5.0	H	Ħ	И	н	•		
Bromomethane	ND	5.0	**	16	10	#	•		
Chloroethane	ND	5.0	н	H	*	μ		•	
Trichlorofluoromethane	ND	5.0	и	II		*	•	w	
Acetone	ND	20			н	H		•	
1,1-Dichloroethene	ND	5.0	**	н	Ħ		*		
1,1,2-Trichlorotrifluoroethane	ND	10			н	н	*		
Methylene chloride	ND	5.0	N	•	*	H	*		
Carbon disulfide	ND	5.0	"				*	•	
trans-1,2-Dichloroethene	ND	5.0			*	ч	**		
Methyl tert-butyl ether	ND	5.0			11	н	10		
Vinyl acetate	ND	5.0	•	11	*		"		
1,1-Dichloroethane	ND	5.0				H	**	*	
2-Butanone	ND	5.0			**				
n-Hexane	ND	5.0		ĸ	•	h	11		
cis-1,2-Dichloroethene	ND	5.0	H	•	4	*	41		
Ethyl acetate	ND	5.0	*		10	11		*	
Chloroform	ND	5.0		41		n	H		
Tetrahydrofuran	ND	5.0	H.	**		*			
1,1,1-Trichloroethane	ND	5.0	н	*1	и		и		
1,2-Dichloroethane	ND	5.0	•	10	46		•		
Benzene	ND	5.0		н	*	*	u	•	
Carbon tetrachloride	ND	5.0	•			*	•		
Cyclohexane	ND	5.0			11		11		
n-Heptane	ND	5.0			*				
Trichloroethene	ND	5.0	4		*	4	•	•	
1,2-Dichloropropane	ND	5.0							
1,4-Dioxane	ND ND	5.0		"		"			
Bromodichloromethane	ND ND	5.0							
cis-1,3-Dichloropropene	ND	5.0		n		,			
4-Methyl-2-pentanone	ND ND	5.0 5.0		**		11			
trans-1,3-Dichloropropene	ND ND	5.0 5.0				n	#		
u aus-1,5-Dictioropropene	ND	5.0					**		



520 West 1st Street Tustin, CA 92780 Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E710074-06) Vapor	Sampled: 18-Oct-07	Received:	18-Oct-07						
Toluene	ND	5.0	ug/m³ Air	1	EJ72302	19-Oct-07	19-Oct-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5.0	n	M	•		•	II .	
2-Hexanone	ND	10	11				4		
Dibromochloromethane	ND	5.0	h	H	н				
Tetrachloroethene	ND	5.0	M		H	*	#		
1,2-Dibromoethane (EDB)	ND	5.0	n		#			•	
Chlorobenzene	ND	5.0	*		н	•	*	ĮI.	
Ethylbenzene	ND	5.0		*	11		•	•	
m,p-Xylene	ND	5.0		4		**	n		
Styrene	ND	5.0		*	10	u	#	•	
o-Xylene	ND	5.0	и	11	н	"			
Bromoform	ND	20	н	u	**	u	*	4f	C-07
1,1,2,2-Tetrachloroethane	ND	5.0	11		п			•	C-07
4-Ethyltoluene	ND	5.0	U	e	þ	"	*	H	
1,3,5-Trimethylbenzene	ND	5.0	1¢	*	н		•	#	C-07
1,2,4-Trimethylbenzene	ND	5.0	11	μ	ti	**		*1	C-07
1,3-Dichlorobenzene	ND	10	*			H	•	"	C-07
Benzyl chloride	ND	5.0	I†	ĸ	H	"	•	11	C-07
1,4-Dichlorobenzene	ND	10	H	*		•	•	nt .	C-07
1,2-Dichlorobenzene	ND	10		#	*1		•		C-07
1,2,4-Trichlorobenzene	ND	10		•		*		w	C-07
Hexachlorobutadiene	ND	10	н	*			*		C-07
Surrogate: Toluene-d8		100 %	80-1	20	"	,	"	"	
Surrogate: 4-Bromofluorobenzene		85.7 %	80-1		M	*	"	*	



520 West 1st Street Tustin, CA 92780

Analyte

Project: TRG101807-11

Project Number: 7115

Reporting

Result

Limit

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

RPD

Limit

Notes

%REC

Limits

RPD

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry

Units

Spike

Level

Source

Result

%REC

Allalyte	Kesmi	LWIN	Onts	Tevel	Kesuit	70REC	Limits	KI D	СШІХ	110163
Batch EJ72302 - TO-15										
Blank (EJ72302-BLK1)				Prepared	& Analyzo	d: 19-Oct	-07			
1,1-Difluoroethane (LCC)	ND	10	ug/l							
Propene	ND	10	ug/m³ Air							
Dichlorodifluoromethane	ND	10	•							
Chloromethane	ND	5.0	4							
Dichlorotetrafluoroethane	ND	10								
Vinyl chloride	ND	5.0	н							
1,3-Butadiene	ND	5.0				,				
Bromomethane	ND	5.0	н							
Chloroethane	ND	5.0	M							
Trichlorofluoromethane	ND	5.0								
Acetone	ND	20								
1,1-Dichtoroethene	ND	5.0	н							
1,1,2-Trichlorotrifluoroethane	ND	10	•							
Methylene chloride	ND	5.0	*							
Carbon disulfide	ND	5.0								
rans-1,2-Dichloroethene	ND	5.0	н							
Methyl tert-butyl ether	ND	5.0	н							
Vinyl acetate	ND	5.0	H							
1,1-Dichloroethane	ND	5.0	ji .							
2-Butanone	ND	5.0								
1-Hexane	ND	5.0	я							
cis-1,2-Dichloroethene	ND	5.0								
Ethyl acetate	ND	5.0								
Chloroform	ND	5.0	ø							
l'etrahydrofuran	ND	5.0								
,1,1-Trichloroethane	ND	5.0	•							
,2-Dichloroethane	ND	5.0	"							
Benzene	ND	5.0	и							
Carbon tetrachloride	ND	5.0								
Cyclohexane	ND	5.0	•							
1-Нерияле	ND	5.0	•							
Trichloroethene	ND	5.0	•							
1,2-Dichloropropane	ND	5.0	*							
1,4-Dioxane	ND	5.0	•							



520 West 1st Street Tustin, CA 92780

Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15 - Quality Control **H&P Mobile Geochemistry**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
Blank (EJ72302-BLK1)				Prepared	& Analyze	d: 19-Oct	-07			
Bromodichloromethane	ND	5.0	ug/m³ Air							
cis-1,3-Dichloropropene	ND	5.0	u							
4-Methyl-2-pentanone	ND	5.0								
trans-1,3-Dichloropropene	ND	5.0	н							
Toluene	ND	5.0	н							
1,1,2-Trichloroethane	ND	5.0	н							
2-Hexanone	ND	10								
Dibromochloromethane	ND	5.0	•							
Tetrachloroethene	ND	5.0	19							
1,2-Dibromoethane (EDB)	ND	5.0	P							
Chlorobenzene	ND	5.0	P							
Ethylbenzene	ND	5.0	H							
m,p-Xylene	ND	5.0	#							
Styrene	ND	5.0	н							
o-Xylene	ND	5.0								
Bromoform	ND	20	*							C-0
1,1,2,2-Tetrachloroethane	ND	5.0	н							C-0
4-Ethyltoluene	ND	5.0	*							
1,3,5-Trimethylbenzene	ND	5.0	*							C-0
1,2,4-Trimethylbenzene	ND	5.0	4							C-0
1,3-Dichlorobenzene	ND	10	11							C-0
Benzyl chloride	ND	5.0	*							C-0
1,4-Dichlorobenzene	ND	10	*							C-0
1,2-Dichlorobenzene	ND	10	•							C-0
1,2,4-Trichlorobenzene	ND	10	•							C-0
Hexachlorobutadiene	ND	10	<u> </u>							C-0
Surrogate: Toluene-d8	95.3		#	96.2		99.I	80-120			
Surrogate: 4-Bromofluorobenzene	165		"	182		90.7	80-120			



520 West 1st Street Tustin, CA 92780 Project: TRG101807-11

Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15					_					
LCS (EJ72302-BS1)				Prepared	& Analyze	:d: 19-Oct	-07			
Propene	38.9	10	ug/m³ Air	35.0		111	65-135			
Dichlorodifluoromethane	121	10	#	101		120	65-135			
Chloromethane	48.0	5.0	4	42.0		114	65-135			
Dichlorotetrafluoroethane	163	10	11	142		115	65-135			
Vinyl chloride	58.0	5.0	а	52.0		112	65-135			
1,3-Butadiene	50.4	5.0	11	44.8		112	65-135			
Bromomethane	88.1	5.0	*	79.2		111	65-135			
Chloroethane	60.3	5.0	91	53.6		112	65-135			
Trichlorofluoromethane	135	5.0	н	113		119	65-135			
Acetone	56.2	20	H	48.4		116	65-135			
1,1-Dichloroethene	98.8	5.0	н	80.8		122	65-135			
1,1,2-Trichlorotrifluoroethane	173	10	н	155		112	65-135			
Methylene chloride	81.9	5.0	н	70.8		116	65-135			
Carbon disulfide	69.2	5.0	μ	63.2		109	65-135			
rans-1,2-Dichloroethene	95.1	5.0	H	80.8		118	65-135			
Methyl tert-butyl ether	85.7	5.0	H	73.6		116	65-135			
Vinyl acetate	83.9	5.0	n	72.0		117	65-135			
1,1-Dichloroethane	95.6	5.0		82.4		116	65-135			
2-Butanone	69.6	5.0		60.0		116	65-135			
n-Hexane	81.4	5.0		72.0		113	65-135			
cis-1,2-Dichloroethene	92.0	5.0	H	80.0		115	65-135			
Ethyl acetate	88.5	5.0		73.6		120	65-135			
Chloroform	118	5.0		99.2		119	65-135			
Tetrahydrofuran	67.7	5.0	н	60.0		113	65-135			
1,1,1-Trichloroethane	136	5.0	*	111		123	65-135			
1,2-Dichloroethane	97.2	5.0	**	82.4		118	65-135			
Benzene	75.2	5.0	10	64.8		116	65-135			
Carbon tetrachloride	154	5.0	19	128		120	65-135			
Cyclohexane	77,6	5.0	#	70.4		110	65-135			
ı-Heptane	95,5	5.0	17	83.6		114	65-135			
Prichloroethene	127	5.0	*1	110		115	65-135			
,2-Dichloropropane	109	5.0		94.4		115	65-135			
1,4-Dioxane	85.5	5.0	•	73.6		116	65-135			
Bromodichloromethane	160	5.0	н	137		117	65-135			



Project: TRG101807-11

520 West 1st Street Tustin, CA 92780 Project Number: 7115

Project Manager: Mr. John Cleary

Reported: 30-Oct-07

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ72302 - TO-15										
LCS (EJ72302-BS1)				Prepared	& Analyze	:d: 19-Oct	-07			
cis-1,3-Dichloropropene	109	5.0	ug/m³ Air	92.4		118	65-135			
4-Methyl-2-pentanone	99.3	5.0	н	83.2		119	65-135			
trans-1,3-Dichloropropene	112	5.0	P	92.4		121	65-135			
Toluene	89.5	5.0	Þ	76.8		117	65-135			
1,1,2-Trichloroethane	134	5.0		111		121	65-135			
2-Hexanone	98.5	10	n	83.2		118	65-135			
Dibromochloromethane	216	5.0	n	174		124	65-135			
Tetrachloroethene	162	5.0		138		117	65-135			
1,2-Dibromoethane (EDB)	195	5.0	4	157		124	65-135			
Chlorobenzene	116	5.0	(4	93.6		124	65-135			
Ethylbenzene	109	5.0	*	88.4		123	65-135			
m,p-Xylene	221	5.0	н	177		125	65-135			
Styrene	113	5.0	н	86.8		130	65-135			
o-Xylene	114	5.0	H	88.4		129	65-135			
Bromoform	1230	20	н	840		146	65-135			C-07, QL-13
1,1,2,2-Tetrachloroethane	220	5.0	н	140		157	65-135			C-07, QL-11
4-Ethyltoluene	135	5.0		100		135	65-135			
1,3,5-Trimethylbenzene	138	5.0	p.	100		138	65-135			QL-1H, C-0
1,2,4-Trimethylbenzene	146	5.0		100		146	65-135			C-07, QL-11
1,3-Dichlorobenzene	179	10		122		147	65-135			C-07, QL-11
Benzyl chloride	170	5.0	н	105		162	65-135			QL-IH, C-0
1,4-Dichlorobenzene	192	10	ď	122		157	65-135			QL-1H, C-0
1,2-Dichlorobenzene	202	10	4	122		166	65-135			QL-1H, C-0
1,2,4-Trichlorobenzene	280	10	*1	151		185	6 5- 135			C-07, QL-11
Hexachlorobutadiene	335	10	**	218		154	65-135			C-07, QL-11
Surrogaie: Toluene-d8	95.8		*	96.2		99.6	80-120			
Surrogate: 4-Bromofluorobenzene	182		"	182		100	80-120			



The Reynolds Group - Tustin Project: TRG101807-11
520 West 1st Street Project Number: 7115 Reported:
Tustin, CA 92780 Project Manager: Mr. John Cleary 30-Oct-07

Notes and Definitions

	Notes and Delinitions
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered an estimate only.
QL-1H	The LCS and/or LCSD recoveries fell above the established control specifications for this analyte. Any result for this compound is qualified and should be considered an estimate only.
E	The concentration indicated for this analyte is an estimated value above the calibration range of the instrument. This value is considered an estimate (CLP E-flag).
C-07	The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any result for this analyte should be considered an estimate.
C-07	The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any result for this analyte should be considered an estimate.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Chain of Custody Record

MOBILE GEOCHEMISTRY

Chain of Custody Record

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159

3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10/18/07
H&P Project # TRG-101807-11
Outside Lab

Client TRG 1530 West 4th Street Tushn Ct. Address: 1551 F. Orcagetherse Ave. Email: Wellte So reynolds - group, phone: 714 - 920 - 7772 Fau: 714-730 - 6476 Email: Wellte So reynolds - group, phone: 714 - 920 - 7772 Fau: 714-730 - 6476 Sample Receity Instructions: Special Instructions: Speci	Client: TRG 52	o west 4st street To	ustin a	*			c	ollect	or: _	m	L B	سالاه	n	51						Р	age: _	1	of <u>1</u>	
Container Cont	Address: 155) E.	Orange thorpe A	ve				c	lient	Projec	t#_	7119	5				P	roject	t Cont	act: _	Toy.	<u>, Clea</u>	<u>,y/c</u>	hrist	Mar
Sample Name Fleid Point Name Purgs Time Date Sample Container Type T	Fullerton,	CA						ocatio	on:															
Sample Name Fleid Point Name Purgs Time Date Sample Container Type T	Email: Wolfe S)/e)	rnolds - group, Phone:	714	-920)- //	72	F	ax: _	/14	~ 13	<u>o-</u>								time:	_/٧٥	mse		_	=
Sample Name Field Point Name Purge Time Date Time Date Time Time Date Time T				Intact: ∫ Seal Int Cold: □	Syfes ☐ act: ☐ Ye:] Yes 🐼 N	No s⊡ No ‡Ê No	N/A	□ ext				82	2601	3		ТО			T0-1		02 🗆			
Sample Name Field Point Name Vol Time Date Type Type	Special Instructions:							☐ gasofine ☐	3.1 TRPH	21 for BTEX/MTBE	EX / Oxygenates	H gas	c,s	SC/LARWQCB	ones	l List			□ 8260B	thane	CO2			Total # of containers
VENS-5' VENS-15' 71.4L 1304 19/18 Vapor Summ VENS-25' 114.61 1324 19/18 Vapor Summ VENS-25' 114.61 1324 19/18 Vapor Summ VENS-60' 71.4L 1304 19/18 Vapor Summ VENS-25' 71.4L 1304 19/18 Vapor Summ VENS-25' 71.4L 1304 19/18 Vapor Summ VENS-60' 71.4L 1304 19/18 Vapor Summ V						Туре	Туре	Ţ	418	805	BT	<u>I</u>	9	DI	Ā	<u> </u>	8 T	ğ	Ra	Me	iĚ		\perp	ğ
VENS-15' 71.4 L 1304 10/18 Vapor Summ VENS-25' 114.6 1334 10/18 Vapor Summ VENS-60' VENS-60' Trip Blank - 1405 10/18 Vapor Summ X X X Regulator Summ						Vapor	Summa									1		X		<u> </u>	\vdash			1
VENS-15 VENS-25' 114.61 1324 19/18 Vapor Sumu VENS-60' 26611 1400 12/18 Vapor Sumu Trip Blank - 1405 12/18 Vapor Sumu X X X Relinquished by: (Signature) Received by. (Signature) Received by. (Signature) TRG Received by. (Signature) AAA Time: 10/18/07 Time: 1500			28.11	1248	10/18	Vapor	Sunme	<u> </u>								X		X		_	\sqcup	\perp	\bot	1
Relinquished by: (Signature) WEW 5-60 Albor 1400 W/8 Vapor Summ - 1405 10/18 Vapor Summ - 14		•	71.46	1304	10/18	Vapor	SUMME									X		X					\perp	- {
Relinquished by: (Signature) WEW 5-60 Albor 1400 W/8 Vapor Summ - 1405 10/18 Vapor Summ - 14	VEN 5-25'		114.6l	1324	19/18	Vipor	Suma			- ~	-					X		X						1
Trip Blank — 1405 10/18 Vigos Surva ; X X X X X X X X X X X X X X X X X X	VEW5-60'	,	266.11	1400	12/18	Vapor	Symma					,				X		X						!
Relinquished by: (Signature) Relinquished by: (Signature) Received by. (Signature) Date: Time: 10 / 18/0 7 1500			-	1405	10/18	Albor	Svan		,							X		X						1
Relinquished by: (Signature) Received by. (Signature) Received by. (Signature) Received by. (Signature) (company) Received by. (Signature) (company) Received by. (Signature) Date: Time: Company Date: Time: Time: Date: Time: Date: Time: Date: Time: Date: Time: Date: Date:												د.												
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V		v.Wolfe	T	RG		Received	y: (Signature)	2	M						Ŧ	(comp	any)		10)/18	5/07	Time	500	
Relinquished by: (Signature) (company) Received by: (Signature) (company) Date: Time:	Relinquished by: (Signature)	alinquished by: (Signature) (company)					y: (Signature)	Signature)							(comp	any)		Date:				:		



The Reynolds Group - Tustin 520 West 1st Street

Tustin, CA 92780

Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15									ŀ	
LCS (EL71403-BS1)				Prepared	& Analyza	ed: 13-Dec	:-07	_	i	
cis-1,3-Dichloropropene	91,8	5.0	ug/m³ Air	92.4		99.4	65-135			
4-Methyl-2-pentanone	86.8	5.0	"	83.2		104	65-135		-	
trans-1,3-Dichloropropene	89.9	5.0	IP	92.4		97.3	65-135			
Toluene	76.7	5.0	4	76.8		99.9	65-135			
1,1,2-Trichloroethane	109	5.0	*II	111		98.2	65-135			
2-Hexanone	81.0	10	•	83.2		97.4	65-135			
Dibromochloromethane	164	5.0	u	174		94.3	65-135			
Tetrachloroethene	136	5.0		138		98.6	65-135			
1,2-Dibromoethane (EDB)	147	5.0	ır	157		93.6	65-135			
Chlorobenzene	87.8	5.0	li .	93.6		93.8	65-135			
Ethylbenzene	81.8	5.0	п	88.4		92,5	65-135			
m,p-Xylene	165	5.0	#	177		93.2	65-135			
Styrene	73.2	5.0	*1	86.8		84.3	65-135			
o-Xylene	81.2	5.0	**	88.4		91.9	65-135		i	
Bromoform	692	20	и	840		82,4	65-135		'	
1,1,2,2-Tetrachloroethane	95.5	5.0	и	140		68.2	65-135			C-0
4-Ethyltoluene	81.2	5.0	ŧ	100		81.2	65-135			
1,3,5-Trimethylbenzene	81.7	5.0	**	100		81.7	65-135			
1,2,4-Trimethylbenzene	75.0	5.0	u	100		75.0	65-135			
1,3-Dichlorobenzene	83.1	10	D	122		68.1	65-135			C-0
Benzyl chloride	60.3	5.0	и	105		57.4	65-135			C-07, QL-11
1,4-Dichlorobenzene	81.6	10	*1	122		66.9	65-135			C-0'
1,2-Dichlorobenzene	70,5	10	11	122		57.8	65-135			C-07, QL-11
1,2,4-Trichlorobenzene	47.9	10		151		31.7	65-135			C-07, QL-11
Hexachlorobutadiene	119	10		218		54.6	65-135			QL-1L, C-0
Surrogate: 1,2-Dichloroethane-d4	108		"	103		105	80-120			
Surrogate: Toluene-d8	93.2		*	96.2		96.9	80-120			
Surrogate: 4-Bromofluorobenzene	176		**	182		96.7	80-120			



The Reynolds Group - Tustin Project: TRG121207-12

520 West 1st Street Project Number: 7115 Phase 250 Reported:
Tustin, CA 92780 Project Manager: Mr. John Cleary 17-Dec-07

Notes and Definitions

QL-1L The LCS and/or LCSD recoveries fell below the established control specifications for this analyte. Any result for this compound is qualified and should be considered an estimate only.

C-07 The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any

result for this analyte should be considered an estimate.

C-07 The initial calibration curve for this TO-15/TO-14A analyte was not verified by a passing second source standard. Therefore, any

result for this analyte should be considered an estimate.

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Reinquished by (Signature) Relinquished by (Signature) Relinquished by (Signature)		\
(company) Received by Signature) (company) Received by Signature) (company) Received by Signature)	(714) 730 - 5397 Sample Receipt Into:YesYo Seathfact resYo Seathfact resYo Colle	Chain of Custody Record
Manna of 82 m case	VOC'S VOC'S DTSC/I ARWOCB - LAW Kelones	tody Record
(company) Date Figure	Full List BTEX:MTBE Double: Contact	Date: 10/18/07 H&P Project # TRG 101807- F458
Tana 1530	Total # of containers	#X#

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MOBILE GEOCHEMISTRY

FI	1002	1
ĨΊ	7090	1

Chain of Custody Record

Date: 10 - 9 - 07	
H&P Project # TRG100907-14	
Outside (eb.	

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Client: The Reynolds Group							Collector: Cherita/Mark Page: 1 of 2 Client Project # 7115 Phase 250 Project Contact: John Cleary/Christa Wo Location: 1551 E. Orange thomps Ave. Fax: 714-730-6476 Turn around time:													_					
Address: 520 Wes-	1 1st Street						_ Clie	ent P	roject	#_	<u> 111:</u>	5 P	has	e á	150	<u></u> F	rojec	t Con	tact:	Joh	n C	lear	Chi	rista.	Wol
Tustin, C	A 92780						_ Loc	ation	n: <u> </u>	<u> 551</u>	E.	Ora	nge	tho	rpe	A	ie.					Ų	<u> </u>		_
Email: Wolfed reunolds	3-group, com Phone	e: 714-	-730-	<u>539° [</u>			_ Fax	: <u> </u>	714-	73	30-0	647	7 <i>Ce</i>			_ 1	um a	round	time:						_
EDF: Yes 🛭 No 🖟			Sampl	le Receipt	t							8	260	В		ТО	-15								
Global ID:		_		☐ Yes ☐ tact: ☐ Yes		□ N/A							İ] N 2				
			Cold: □	Cold: Yes No N/A (Received on Site)										vel					J TO-15		02				
Special Instructions:								H ☐ gasoline ☐ diesel	418.1 TRPH	8021 for BTEX/MTBE	BTEX / Oxygenates	TPH gas	S C	DTSC/LARWOCB LOW Level	Ketones	Full List	BTEX/MTBE	LCC (specify) J, I DFR	Naphthalene ☐ 8260B ☐	Methane	d Gases CO2			ll# of containers	5
Sample Name	Field-Point Name	Purge Vol	Time	Date	Sample Type	· -		TPH	418	802	ВТЕ	효	VOC's	DTS	Ketc	Full	ВТЕ	227	Nap	Met	Fixed			Total	2
SV-35 1PV	ISA	8100	9:02	10-1-07	Vapor	- WDec Syrin	nce							X				X						1	
SV-35 3PV	1261	223cc	9:04				<u> </u>							X				X						l	
SV-35 7PY	1561	50 Tec	9:07											Χ				X						1	
5V-34-15	15ft 5076	4976	10:30											Χ				X						1	7
SV-33-5	5 {}	4970	1040											X				X						15	
SV-33-15	15 f1	50%	1045											X				X						1	
3V-32-5		4970	1118											X				Χ						1	7
Sv -32 - 15		50 Tcc	1145											X				X						1	
SV-30- 5		49700												X				Χ						1	
SV-30 - 15			12210		1	$\top $		\top	寸					X				Χ						Ti	
Relinquished by: (Signature)	11/10	٣	(company)		Received	by: (Signa	iture)	<i>a</i>	/9	/n	wl	1)		Ш	(corpa	any)		Date:)-G-	07	Tim	510	5	
Relinquished by: (Signature)	- Anna As		(company)		Received	by: (Signa	ature)	·Ų	U	1//					_/_	(compa	any)		Date:		, ,	Tim		_	
elinquished by: (Signature) (company) Received by: (Sign					i by: (Signa	ature)	ature) (company) Date: Time:																		
Signature constitutes authorization t	to proceed with analysis and accep	nance of co	ndition on b	ack.	Sample	disposal ins	struction:			Dis	posal @	g \$2.00) each	[Return t	o çlient	1		Pickup					_

Holding Times: Holding times are carefully monitored by H&P MOBILE GEOCHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

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MOBILE GEOCHEMISTRY

Chain of Custody Record

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-9-	-01
H&P Project #	TRG100907-14
Outside Lab:	

client: The Reynolds Group Address: 520 West 1st Street Tustin, CA. 92780		c	Collect Client I	or: _(Ther # 111 551 k	ita/ 15 PH	Ma 1958 1964	rkh 25i	D e 1	ve	Projec	t Con	tact:	F Joh	Page: _	2 eari	of	2	
Email: Will feere ynolds - group con Phone;	<u> 114-730-5397</u>	Fe	ax: _	714	-730	-64	16						time:						
EDF: Yes No	Sample Receipt Intact:	N/A	□ ext		ļ		8260			TO	-15] TO-15		O ₂				
Special Instructions:			H 🗌 gasoline 📋 diesel	418.1 TRPH	8021 for BTEX/MTBE	B LEX / Oxygenates TPH gas	VOC's	DTSC/LARWQCB LCW	Ketones	Full List	втех/мтве	LCC (specify) 1, 1 NFA	Naphthalene 🔲 8260B	Methane	ed Gases CO2			Total # of containers	
Sample Name Field Point Name Vo	e Time Date Sample	Container Type	ТРН	418	802	ā ē	9	70	Α.	Ē	BT		Nay	Me	Fixed			Tot	
SV-31-5 497	C 1240 10-9-07 Kyper	Syringe			_			X		L		X					\perp	1	
SV-31-15 507	ce 1245	Δ,						X.				X						1	
5V-31-15 507 5V-31-15 DUP 560	1247 V	—					_	X			_	X				+	+	- 1	
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Relinquished by: (Signature)		y: (Signature)	_	7						(comp			Date			Time:			
*Signature constitutes authorization to proceed with analysis and acceptance of	f condition on back. Sample dis	sposal instruction	n:		 Dispo	sal @ \$2	.00 each			Return	to clien	ť		Pickup	,				

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MOBILE GEOCHEMISTRY E 11001

Chain of Custody Record

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date:/0-10-07	
H&P Project # TRG 100907-L4	
	_

Olient: The Reynolds Group Address: 520 West St Street Tustin, CA 92780					Collector: Cherita / Mark L Client Project # 7115 Phase 250 Location: 1551 E. Orange thurpe Ave Fax: 114-730-4476 Turn around time:														2		
Address: 520 Wes	t 1st Street			c	Client Project # 7115 Phase 250 Project Contact: Christa Wolfe																
Tustin, CA	93780				ocatio	n: <u>/</u>	55/	E	· D	ran	ge:	t por	pe.	Au	e						
Email: Welferreynoids-group.com Phone: 114-730-5397							-73	0-4	47	6			, _ T	urn a	round	time:					
EDF: Yes □ No □		Sample Rec	eipt						82	260	В		TO	<u>-15</u>							$\neg \neg$
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		Cold: ☐ Yes	□ No		ex											TO-15					
		N/A (Receive	ed on Site)													T []		05			
Special Instructions:	$\overline{}$				esel	ĺ					Jow				T						
SV-24-5	cours) cou	ld not			☐ diesel		BE	_s			7				91	□ 8260B		CO	Ì		ι
SV-24-5 SV-28-15 (SV- SV-24-5	28-15) & Coll	lect any.	sample	2		İ	₩.	nate			8				4			Ŏ		1	containers
51-26-5	Sthroi	ugh probe	2, Tigi	りせ	asoli	포	Ê.	cyge			Ş.			æ). (4)	<u>a</u>		es			l tig
4 ,	dra	w.			ğ		for B	Ô	jas	,,	Ž	es	ist	/MT	spec	hale	aue	Gases			# of G
		- -	Sample		TPH 🗌 gasoline	418.1 TRPH	8021 for BTEX/MTBE	BTEX / Oxygenates	TPH gas	VOC's	DTSC/LARWQCB	Ketones	Full List	BTEX/MTBE	LCC (specify)	Naphthalene	Methane	Fixed			Total #
Sample Name	Field Point Name	Purge Vol Time Dat	e Type	Type		4		•	_	_		_		_	إذا	z	2	11.			
SV-25-5	L	197cc 9:45Am 10-10	rol Vapor	springe		_					X	_			X						- 1
SV-25-15		507a 948m									X				X						1
SV-24-15		507cc 9:514m									X				X						
SV-27-5		197cc 10574m									X				X						i
SV-27-15	5	109m									X				X						
SY-24-5	4	197a 11:14					-				X				X				_=		
51-28-5	4	197cc 1215p									X				X						i
SV-au-15		07cc 12300m									X				X						1
SV-29-5	4	197cc 1315'									X				Χ						1
SY- 29-15	5	D7cc 1320				اء					X	_			X						
Relinquished by: (Stonature)	TRO (In	A)			4º7	Mol	(compa	ייינו		Date:	10-0	1	Thr	14:40	
Relinquished by: (Signature) (Company) Received				ceived by: (Signature) (company)							Date:				Time:						
Relinquished by: (Signature) (company) Received by				(Signature)									(compa	any)		Date: Time:					
*Signature constitutes authorization to	gnature constitutes authorization to proceed with analysis and acceptance of condition on back.				Sample disposal instruction: Disposal @ \$2.00 each Return to client Pickup																

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MOBILE GEOCHEMISTRY

Chain of Custody Record

2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9159
 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 562.426.6995

Date: 10-10-07
H&P Project # TR G 100 907-14
Outride Lab:

Client: The Reynold's Group Address: 520 West 1st Street Tushn, CA 92780 Email: Wilfe ereynolds-group, com Phone: 714-730-5397								Collector: Cherita/Markh Page: 2 of 2 Client Project # 7115 Phase 250 Location: 1551 E. Drange Horpe Ave Fax: 714-730-6476 Tum around time:																
EDF: Yes No Sample Receipt Intact: Yes No Seal Intact: Yes No No N/A (Received on Site) Special Instructions: SV-24-5 Could not collect any SV-26-5 Tight draw.							☐ gasoline ☐ diesel ☐ ext	418.1 TRPH	8021 for BTEX/MTBE	BTEX / Oxygenates		260		Ketones		BTEX/MTBE		Naphthalene 8260B TO-15	Methane	Fixed Gases CO2 CO2 N2				Total # of containers
Sample Name SV-39-5 Dup	Field Point Name	Purge Vol	Time 1350	Date iD-10ර7	Sample Type	Container Type Course Syringe	HdL	418	802.	BTE	HdL	VOC's	X DIS	Ketc	ED-T	BTE	X	Nap	Mett	Fixe				Tota
Relinquished by: (Signature) Relinquished by: (Signature) Relinquished by: (Signature)			(company))	Received	by: (Signature) LOCAL Dy: (Signature) by: (Signature)	 	ma	TAX	2	Н.	49)	Nobe	le C	Jeomp Jes (comp	any)	rstry	Date:	-10-0 :	7	Tin	ne:	40	

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25 October 2007

Ms. Christa Wolfe The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780

for Sulling,

RE: TRG101807-SB1

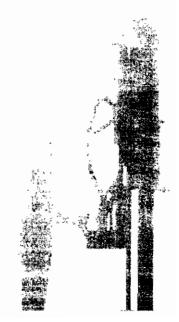
Enclosed are the results of analyses for samples received by the laboratory on 18-Oct-07 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal

Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595





520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 25-Oct-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VEW12-5, P58.4L	E710067-01	Vapor	18-Oct-07	18-Oct-07
VEW12-15, P101.7L	E710067-02	Vapor	18-Oct-07	18-Oct-07
VEW12-25, P144.9L	E710067-03	Vapor	18-Oct-07	18-Oct-07
VEW12-60, P296.3L	E710067-04	Vapor	18-Oct-07	18-Oct-07
VEW9-5, P28.1L	E710067-05	Vapor	18-Oct-07	18-Oct-07
VEW9-15, P71.4L	E710067-06	Vapor	18-Oct-07	18-Oct-07
VEW9-25, P114.6L	E710067-07	Vapor	18-Oct-07	18-Oct-07
VEW5-5, P28.1L	E710067-11	Vapor	18-Oct-07	18-Oct-07
VEW5-15, P71.4L	E710067-12	Vapor	18-Oct-07	18-Oct-07
VEW5-25, P114 6L	E710067-13	Vapor	18-Oct-07	18-Oct-07
VEW5-25DUP, P114 7L	E710067-14	Vapor	18-Oct-07	18-Oct-07
VEW5-60, P266.1L	E710067-15	Vapor	18-Oct-07	18-Oct-07
VEW3-5, P59 7L	E710067-16	Vapor	18-Oct-07	18-Oct-07
VEW3-15, P102.9L	E710067-17	Vapor	18-Oct-07	18-Oct-07
VEW3-25, P146 2L	E710067-18	Vapor	18-Oct-07	18-Oct-07



520 West 1st Street Tustin, CA 92780 Project TRG101807-SB1

Project Number. 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

		В							
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-5, P58.4L (E710067-01) Vapor	Sampled: 18-Oct-07	Received: 18-	Oct-07					_	
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		**	"		**		
Vinyl chloride	ND	0.1	*	"	"	**	н		
Chloroethane	ND	0.5	N*	•	"	11	"		
Trichlorofluoromethane	ND	0.5	•	•	"	*	16	n .	
1,1-Dichloroethene	120	0.5			"	"	н	n	
Methylene chloride	ND	0.5	*		**		11	,	
Freon 113	4.2	0.5	n		я	и	п	*	
trans-1,2-Dichloroethene	ND	0.5	Pr .	ч	**	н	11	"	
1,1-Dichloroethane	2.4	0.5	*	я	4	н	H	"	
cis-1,2-Dichloroethene	ND	0.5	*		*		н	n	
Chloroform	0.9	0.1	н	•	**		H	*	
1,1,1-Trichloroethane	13	0.5	н	•	**	n	II .	b	
Carbon tetrachloride	ND	0.1	*	а	**	н	1)		
1,2-Dichloroethane	ND	0.1		"	**	н	*	a	
Benzene	0.1	0.1		44	**	**	,,	"	
Trichloroethene	64	0.1		*	**	H		"	
Toluene	ND	1.0		н		97	"		
1,1,2-Trichloroethane	ND	0.5	U		**	16	"		
Tetrachloroethene	30	0.1		n	*	**		u	
Ethylbenzene	ND	1.0	*	н	,,	U	n	ч	
1,1,1,2-Tetrachloroethane	ND	0.5	ч	*	"	U	"	u	
m,p-Xylene	ND	1.0	н	Ħ			"	**	
o-Xylene	ND	1.0	н	**		4	u	**	
1,1,2,2-Tetrachloroethane	ND	0.5	н	n					
Surrogate: Dibromofluoromethane		102 %	75-12	25			"	*	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	75-12	25	,,	"	"	"	
Surrogate: Toluene-d8		94.8 %	75-12	25	21	"	"	*	
Surrogate: 4-Bromofluorobenzene		90.0 %	75-12	2.5	**	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-15, P101.7L (E710067-02) Vapor	Sampled: 18-Oct-07	Received: 18	8-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	**	*	H		n	,	
Vinyl chloride	ND	0.1	н	**	н		,,	*	
Chloroethane	ND	0.5	н	*	н	,,	•	я	
Trichlorofluoromethane	ND	0.5	п	И	İt	*	"	•	
1,1-Dichloroethene	9.8	0.5	"	н	"	n	•		
Methylene chloride	ND	0.5	•	"	ď	н			
Freon 113	ND	0.5		"	n	*			
trans-1,2-Dichloroethene	ND	0.5	19		v	"	"	*	
1,1-Dichloroethane	ND	0.5	н		R	"	,,	H	
cis-1,2-Dichloroethene	ND	0.5	11		м		н	Ħ	
Chloroform	0.2	0.1		**	н		•	*	
1,1,1-Trichloroethane	1.2	0.5	"	"	**	,,	•		
Carbon tetrachloride	ND	0.1		11	4	"	"		
1,2-Dichloroethane	ND	0.1		**	a				
Benzene	ND	0.1	*	и				»	
Trichloroethene	8.2	0.1	н		R	"	*		
Toluene	ND	1.0	**	,,	и	•	*	•	
1,1,2-Trichloroethane	ND	0.5	**	"	н	*	*	4	
Tetrachloroethene	3.1	0.1		**	,,	*	"		
Ethylbenzene	ND	1.0	,,	"	ø	н			
1,1,1,2-Tetrachloroethane	ND	0.5	II .	*		"	*		
m,p-Xylene	ND	1.0	"	,,	н		*	"	
o-Xylene	ND	1.0		*	H		II .		
1,1,2,2-Tetrachloroethane	ND	0.5	D .	"	я	н	"		
Surrogate: Dibromofluoromethane		103 %	75-1.	25	"	,,	"	"	
Surrogate: 1,2-Dichloroethane-d4		95.6%	75-1.	25	"	"	,,	**	
Surrogate: Toluene-d8		94.4%	75-1	25	21	"	tr	**	
Surrogate: 4-Bromosluorobenzene		91.6%	75-1	25	"	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-25, P144.9L (E710067-03) Vapor	Sampled: 18-Oct-07	Received: 1	8-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		н	н	"	*	*	
Vinyl chloride	ND	0.1	16	**	*	и	н		
Chloroethane	ND	0.5	11	»	,,	н	n		
Trichlorofluoromethane	ND	0.5	н			h	"		
1,1-Dichloroethene	210	5.0	н	0.5	•	"	"	"	
Methylene chloride	ND	0.5	*	0.05	и	"	"		
Freon 113	7.3	0.5		н	11	"	**		
trans-1,2-Dichloroethene	ND	0.5		н	н	"	**	**	
1,1-Dichloroethane	4.2	0.5	"	"	n	#	н	н	
cis-1,2-Dichloroethene	0.5	0.5	11	n	*	н	H	*	
Chloroform	1.6	0.1	11	U	u	н	*	*	
1,1,1-Trichloroethane	21	0.5	н	"		**	и		
Carbon tetrachloride	ND	0.1	*	**	**				
1,2-Dichloroethane	ND	0.1	**	и	н	a	a	u	
Benzene	0.2	0.1	"	ш	ш	4	11	"	
Trichloroethene	110	0.1	*	*	н	н	н	*	
Toluene	ND	1.0	**	"	**	н	*	*	
1,1,2-Trichloroethane	ND	0.5	"		U	н	*	b o	
Tetrachloroethene	56	0.1	п	"	"	"			
Ethylbenzene	ND	1.0	**	a	41			"	
1,1,1,2-Tetrachloroethane	ND	0.5		и			4	"	
m,p-Xylene	ND	1.0		н	н	"	"	"	
o-Xylene	ND	1.0	"	n	**	н	•	*	
1,1,2,2-Tetrachloroethane	ND	0.5	н		41	н	··	»	
Surrogate: Dibromofluoromethane		109 %	75-1.	25	"	"	,,	,,	
Surrogate: 1,2-Dichloroethane-d4		104 %	75-1.	25	"	"	"	"	
Surrogate: Toluene-d8		98.4 %	75-1.	25	"	"	**	"	
Surrogate: 4-Bromofluorobenzene		103 %	75-1	25	"	"	H	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW12-60, P296.3L (E710067-04) Vapor	Sampled: 18-Oct-07	Received: 1	8-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	н	#			n	•	
Vinyl chloride	ND	0.1	•		н	"	"		
Chloroethane	ND	0.5	4	"		"	*	n	
Trichlorofluoromethane	ND	0.5	*	n	•	4	•	#	
1,1-Dichloroethene	9.0	0.5	**		"	н	"	*	
Methylene chloride	ND	0.5	a	ч		*	*		
Freon 113	0.9	0.5	н	ш			"	4	
trans-1,2-Dichloroethene	ND	0.5	H	n	н	11	a	11	
1,1-Dichloroethane	ND	0.5			н	н		n	
cis-1,2-Dichloroethene	ND	0.5		"	*	*			
Chloroform	0.1	0.1	**	н				"	
1,1,1-Trichlorocthane	3.9	0.5	н	n	4	**		-	
Carbon tetrachloride	ND	0.1	*	н	н	н	16	"	
1,2-Dichloroethane	ND	0.1		**	**	"	н	"	
Benzene	0.1	0.1	м	н		"	,,	и	
Trichloroethene	43	0.1	n		**	**	4	*	
Toluene	ND	1.0	n	u	"	n	н	,	
1,1,2-Trichloroethane	ND	0.5		м	4	"	**		
Tetrachloroethene	10	0.1	н	**		ч	u		
Ethylbenzene	ND	1.0	r	**	н	11	"	"	
1,1,1,2-Tetrachloroethane	ND	0.5			*	*	11		
m,p-Xylene	ND	1.0		**			*	*	
o-Xylene	ND	1.0	а	l+	ч	u		n	
1,1,2,2-Tetrachloroethane	ND	0.5	н		н	п		н	
Surrogate: Dibromofluoromethane		115 %	75-1.	25	"	"	,,	u	
Surrogate: 1,2-Dichloroethane-d4		107 %	75-1		"	"	"	"	
Surrogate: Toluene-d8		95.6 %	75-1		"	"	*	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-1		н	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number 7115 Phase 250 Project Manager: Ms Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW9-5, P28.1L (E710067-05) Vapor	Sampled: 18-Oct-07	Received: 18-C)ct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5			"	н		"	
Vinyl chloride	ND	0.1	"	ri	11	"	•	"	
Chloroethane	ND	0.5	и	4		"	Ħ	*	
Trichlorofluoromethane	ND	0.5	4		**	11	ч	"	
1,1-Dichloroethene	42	0.5	н		"	u	,	"	
Methylene chloride	ND	0.5	11		"	*	4	*	
Freon 113	0.6	0.5	"	n	II.	н			
trans-1,2-Dichloroethene	ND	0.5	ш	и	ч	"	*	**	
1,1-Dichloroethane	1.4	0.5		ч	н	**	**	"	
cis-1,2-Dichloroethene	ND	0.5	D	n	И	"		Ħ	
Chloroform	0.8	0.1	"	•	4	"	н		
1,1,1-Trichloroethane	3.4	0.5			н	н	•	"	
Carbon tetrachloride	ND	0.1	**	n	**	**	"	#	
1,2-Dichloroethane	ND	0.1	н	н	4	"	12	45	
Benzene	0.1	0.1	11	•	19		•		
Trichloroethene	43	0.1	"		ıt.	**		n	
Toluene	ND	1.0	н	н	*		,,	**	
1,1,2-Trichloroethane	ND	0.5		и		п	н	м	
Tetrachloroethene	39	0.1	ø	v	*	*	"	ч	
Ethylbenzene	ND	1.0	,		н	11		"	
1,1,1,2-Tetrachloroethane	ND	0.5	h	н	•		**	"	
m,p-Xylene	ND	1.0	14	a	н	,,	**	я	
o-Xylene	ND	1.0	•		H2	*			
1,1,2,2-Tetrachloroethane	ND	0.5	н	н			"	*	
Surrogate: Dibromofluoromethane		101 %	75-	-125	,,	a	,,	n	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	75-	-125	**	"	"	"	
Surrogate: Toluene-d8		87.2 %	75.	125	n	"	"	"	
Surrogate: 4-Bromofluorobenzene		92.8 %		125	,,	*	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW9-15, P71.4L (E710067-06) Vapor	Sampled: 18-Oct-07	Received: 18-	Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		10	н	"	4	**	
Vinyl chloride	ПN	0.1	ıt		*	"			
Chloroethane	ND	0.5	н	ıı		11			
Trichlorofluoromethane	ND	0.5		**	11	"	•	*	
1,1-Dichloroethene	170	5.0	"	0.5	"		,		
Methylene chloride	ND	0.5	n	0.05		"	,,	u	
Freon 113	1.8	0.5	и.	**		**	a	*	
trans-1,2-Dichloroethene	ND	0.5	**	H	14	"	н	19	
1,1-Dichloroethane	5.2	0.5		*	н		•	n	
cis-1,2-Dichloroethene	0.8	0.5	"		n				
Chloroform	2.6	0.1	н	"		"	•	a	
1,1,1-Trichloroethane	11	0.5	H	м		11	н	n	
Carbon tetrachloride	ND	0.1		Ħ		"	**		
1,2-Dichloroethane	4.4	0.1		"	*				
Benzene	0.2	0.1	и	"	"	"	•	q	
Trichloroethene	130	0.1	*	н	·	10	n		
Toluene	ND	1.0	n	ıı	"	"	*	"	
1,1,2-Trichloroethane	1.6	0.5		н	н	"	"	н	
Tetrachloroethene	89	0.1		n	,				
Ethylbenzene	ND	1.0			"	"	4		
1,1,1,2-Tetrachloroethane	ND	0.5	н	**		**	**		
m,p-Xylene	ND	1.0		н	н	n	н	*	
o-Xylene	ND	1.0		п	n		**	*	
1,1,2,2-Tetrachloroethane	ND	0.5	н	a		"	d	"	
Surrogate: Dibromofluoromethane		104 %	75-	125	"	"		,,	
Surrogate: 1,2-Dichloroethane-d4		92.8 %		125	,,	"	"	,,	
Surrogate: Toluene-d8		97.2 %		125	"	n	ø		
Surrogate: 4-Bromosluorobenzene		92.0 %		125	,,	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW9-25, P114.6L (E710067-07) Vapor	Sampled: 18-Oct-07	Received: 18-	Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"			*			
Vinyl chloride	ND	0.1	11	*1	**	11	"	"	
Chloroethane	ND	0.5		**	И	··	n		
Trichlorofluoromethane	ND	0.5	"		u	н	*		
1,1-Dichloroethene	61	0.5	"	37	н	4	•	**	
Methylene chloride	ND	0.5			и	"		"	
Freon 113	0.9	0.5	,	"	u	*	н	*	
trans-1,2-Dichloroethene	ND	0.5	н	"	"	"	11	"	
1,1-Dichloroethane	1.9	0.5		11	11	n	*	,,	
cis-1,2-Dichloroethene	ND	0.5	ч	"	11	н	н	#	
Chloroform	1.0	0.1	"		*		"	"	
1,1,1-Trichloroethane	5.0	0.5	,	"	н	,	**	"	
Carbon tetrachloride	ND	0.1	11	*		и	н	*	
1,2-Dichloroethane	0.7	0.1	н	н		"	я	**	
Benzene	ND	0.1		14	н		•	*	
Trichloroethene	69	0.1	,,		"	н	Ħ	*	
Toluene	ND	1.0	*	**	"	н	"	н	
1,1,2-Trichloroethane	ND	0.5		и	n		•		
Tetrachloroethene	64	0.1		**	4	n		**	
Ethylbenzene	ND	1.0	ч	n		н	н	*	
1,1,1,2-Tetrachloroethane	ND	0.5	"	н	,	"	"	"	
m,p-Xylene	ND	1.0	"	"	11		•		
o-Xylene	ND	1.0	*	"	"	н	*		
1,1,2,2-Tetrachloroethane	ND ND	0.5	n	н	"	*	"		
Surrogate: Dibromofluoromethane		108 %	75-12:	5	н	п	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	75-12	5	μ	17	"	"	
Surrogate: Toluene-d8		95.2 %	75-12.	5	12	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	75-12.	5	rr .	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-5, P28.1L (E710067-11) Vapor	Sampled: 18-Oct-07	Received: 18-C)ct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/!	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		н	11		,,		
Vinyl chloride	ND	0.1	4	"	*	н	"	*	
Chloroethane	ND	0.5	*			"	*	*	
Trichlorofluoromethane	ND	0.5	•	**	**	"		•	
1,1-Dichloroethene	3.8	0.5	"	,	*	н	*		
Methylene chloride	ND	0.5	н	"	"		н	**	
Freon 113	ND	0.5	"	**	н	п	•		
trans-1,2-Dichloroethene	ND	0.5	"	u		*	ч	U	
1,1-Dichloroethane	ND	0.5	н	а			"	*	
cis-1,2-Dichloroethene	ND	0.5	,	11	**	ч			
Chloroform	0.2	0.1		"	*	н	*	14	
1,1,1-Trichloroethane	1.6	0.5	41	и	"		*	*	
Carbon tetrachloride	ND	0.1	11	"	"	4			
1,2-Dichloroethane	ND	0.1		**	*	н		ч	
Benzene	0.1	0.1	**			,	*	14	
Trichloroethene	13	0.1	н	14	"			н	
Toluene	ND	1.0	v	0	0	0	11	U	
1,1,2-Trichloroethane	ND	0.5	**		,,	"	*	*	
Tetrachloroethene	23	0.1	ч	"	4		"	n	
Ethylbenzene	ND	1.0		0	11	"	"	n	
1,1,1,2-Tetrachloroethane	ND	0.5			*	**	•		
m,p-Xylene	ND	1.0	**				*	ø	
o-Xylene	ND	1.0	*	**	**	"		P	
1,1,2,2-Tetrachloroethane	ND.	0.5				н	я	"	
Surrogate: Dibromofluoromethane		98.4 %	7 5 -	125	,,	,	,,	,,	
Surrogate: 1,2-Dichloroethane-d4		93.2 %	7 5 -	125	,,	"	,,	,,	
Surrogate: Toluene-d8		101 %	75-	125	"	"	"	*	
Surrogate: 4-Bromofluorobenzene		94.0 %	75-	125	"	n	n	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-15, P71.4L (E710067-12) Vapor	Sampled: 18-Oct-07	Received: 18-	Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	н	*	u	"	*	-	
Vinyl chloride	ND	0.1		11	**		•	а	
Chloroethane	ND	0.5	"	o	11	It	ч	"	
Trichlorofluoromethane	ND	0.5	In	н		11		*	
1,1-Dichloroethene	6.0	0.5		*	*	"			
Methylene chloride	ND	0.5	*		11	п	*	"	
Freon 113	ND	0.5	и	n	4	"		**	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"		u	
1.1-Dichloroethane	ND	0.5	**		н	*		,	
cis-1,2-Dichloroethene	ND	0.5	"	**		"	н	*	
Chloroform	0.2	0.1		и	"		44	•	
1,1,1-Trichloroethane	1.3	0.5	"	•	н	n	*	,	
Carbon tetrachloride	ND	0.1	"	n	4	11	*	*	
1,2-Dichloroethane	ND	0.1	4	н	n	u		*	
Benzene	0.1	0.1	"	"	н	»	"	•	
Trichloroethene	14	0.1	н	"	44	11	"	*	
Toluene	ND	1.0	•	"	•		*	•	
1,1,2-Trichloroethane	ND	0.5	*	u	*			44	
Tetrachloroethene	19	0.1	п	"	44	п	19		
Ethylbenzene	ND	1.0	"	и		"	н	*	
1,1,1,2-Tetrachloroethane	ND	0.5	•	"	"		"	"	
m,p-Xylene	ND	1.0	"	•	4	*	"		
o-Xylene	ND	1.0	ч	н	**	14	Ħ	*	
1,1,2,2-Tetrachloroethane	ND ND	0.5	4	н	11			"	
Surrogate: Dibromofluoromethane		105 %	75-1	25	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		104 %	75-1	25	,,	"	*	*	
Surrogate: Toluene-d8		108 %	75-1	25	"	"	n	p	
Surrogate: 4-Bromofluorobenzene		91.6%	75-1		**	u	н	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25, P114.6L (E710067-13) Vapor	Sampled: 18-Oct-07	Received: 18	3-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	**	"	•	*	*	
Vinyl chloride	ND	0.1	н	b	"		U	**	
Chloroethane	ND	0.5	н	n	*	•	•	*	
Trichlorofluoromethane	ND	0.5		**		п		*	
1,1-Dichloroethene	13	0.5	**	"		*	*		
Methylene chloride	ND	0.5	**	н	"	н	•		
Freon 113	ND	0.5		я	**	н	n	"	
trans-1,2-Dichloroethene	ND	0.5		н	"	n	"	и	
1,1-Dichloroethane	ND	0.5	•	п	н		"	н	
cis-1,2-Dichloroethene	ND	0.5	**	*	н	"	n	44	
Chloroform	0.1	0.1	**	"	,,		n	#	
1,1,1-Trichloroethane	0.8	0.5	44	*	,	u	u	*	
Carbon tetrachloride	ND	0.1		"	"	a	u	"	
1,2-Dichloroethane	ND	0.1				11	"	,	
Benzene	ND	0.1	11	4		**		"	
Trichloroethene	8.7	0.1	n	**		н		"	
Toluene	ND	1.0	н	44		н	H	"	
1,1,2-Trichloroethane	ND	0.5	н	**	"	ļ	н	n	
Tetrachloroethene	12	0.1	**	44	"	ш	н		
Ethylbenzene	ND	1.0	н		"		н		
1,1,1,2-Tetrachloroethane	ND	0.5	**	**		ш	н	u	
m,p-Xylene	ND	1.0	×		"	*	*		
o-Xylene	ND	1.0	н		a	н	**	u	
1,1,2,2-Tetrachloroethane	ND	0.5	н	"		н	1)	"	
Surrogate: Dibromofluoromethane		101 %	75-1	25	"	"	,,	"	
Surrogate: 1,2-Dichloroethane-d4		98.0 %	75-1		,,	"	,,	,,	
Surrogate: Toluene-d8		93.2 %	75-1		"	"	"	,,	
Surrogate: 4-Bromofluorobenzene		95.6 %	75-1		,,	н	"	,,	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

		porting		Dilution					
Analyte	Result	Limit	Units	Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-25DUP, P114.7L (E710067-14) Vapor	Sampled: 18-Oct-07	Receive	d: 18-Oct-	07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5			н	•		"	
Vinyl chloride	ND	0.1				"	"	4	
Chloroethane	ND	0.5	"	•	11	"	"	18	
Trichlorofluoromethane	ND	0.5	"			н	н	D	
1,1-Dichloroethene	4.9	0.5	"		"	H	н	,	
Methylene chloride	ND	0.5	"	*	"	*	*	*	
Freon 113	ND	0.5	n	"		41	н	n	
trans-1,2-Dichloroethene	ND	0.5	н	**	u	"	H	*	
1,1-Dichloroethane	ND	0.5	и	н		"	16	*	
cis-1,2-Dichloroethene	ND	0.5	"	II .	"	"	"	4	
Chloroform	ND	0.1	**	н	*	"	4	•	
1,1,1-Trichloroethane	ND	0.5	*	**	,	"	*	4	
Carbon tetrachloride	ND	0.1		**	*	u	u	4	
1,2-Dichloroethane	ND	0.1		**	H		•	*	
Benzene	ND	0.1		**	н		•	•	
Trichloroethene	3.2	0,1		•	н			"	
Toluene	ND	1.0		"	н		"		
1,1,2-Trichloroethane	ND	0.5		•	н	"	u		
Tetrachloroethene	4.2	0.1	"	•	н		ıl	u	
Ethylbenzene	ND	1.0	*		п	,,	u	u u	
1,1,1,2-Tetrachloroethane	ND	0.5				"	"		
m,p-Xylene	ND	1.0		"		11	,,	u	
o-Xylene	ND	1.0	*		4	н	"	u	
1,1,2,2-Tetrachloroethane	ND	0.5	"			"	n		
Surrogate: Dibromofluoromethane		107 %	75-1	25	,,	,,	"	"	
Surrogate: 1,2-Dichloroethane-d4		103 %	75-1		,,	n	u	*	
Surrogate: Toluene-d8		96.8 %	75-1		"	o	n	"	
Surrogate: 4-Bromofluorobenzene		89.2 %	75-1		"	n	"	,,	



520 West 1st Street

Tustin, CA 92780

Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager Ms. Christa Wolfe Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW5-60, P266.1L (E710067-15) Vapor	Sampled: 18-Oct-07	Received: 18-	Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	н		u	Ħ		н	
Vinyl chloride	ND	0.1	Ħ		"	*		*	
Chloroethane	ND	0.5	19	"		11		n	
Trichlorofluoromethane	ND	0.5		"		**	•	"	
1,1-Dichloroethene	170	5.0		0.5		n		*	
Methylene chloride	ND	0.5		0.05	"	4	•	H	
Freon 113	15	0.5	10	,	"	"	,	29	
trans-1,2-Dichloroethene	ND	0.5	44	**	*	4		*	
1,1-Dichloroethane	3.3	0.5	•	*1	"	"	"	*	
cis-1,2-Dichloroethene	1.1	0.5		H	"		*	ч	
Chloroform	1.1	0.1	D.	и	н		*	4	
1,1,1-Trichloroethane	34	0.5		ч	н		*	"	
Carbon tetrachloride	ND	0.1	4		н		*	•	
1,2-Dichloroethane	ND	0.1	N.	**	н	u	*	•	
Benzene	0.9	0.1	**	**	*	"			
Trichloroethene	550	1.0		0.5	•	"	*	"	
Toluene	ND	1.0	И	0 05		h	•	"	
1,1,2-Trichloroethane	ND	0.5	"	"		11	u	#	
Tetrachloroethene	170	1.0	"	0,5	"	"	,,	•	
Ethylbenzene	ND	1.0	,	0 05	н		*	и	
1,1,1,2-Tetrachloroethane	ND	0.5		"	н		n	"	
m,p-Xylene	ND	1.0	н	"	**	n		*	
o-Xylene	ND	1.0	н	a	"		*		
1,1,2,2-Tetrachloroethane	ND	0.5					н	ь	
Surrogate: Dibromofluoromethane		104 %	75	-125	,,	"	*	"	
Surrogate: 1,2-Dichloroethane-d4		98.8 %	75	-125	"	"	"	,,	
Surrogate: Toluene-d8		88.4 %	75	-125	,,	n	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %	75	-125	,,	n	"	#	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW3-5, P59.7L (E710067-16) Vapor	Sampled: 18-Oct-07	Received: 18-0	Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	•	**	"			a	
Vinyl chloride	ND	0.1		**	"	4	п	a	
Chloroethane	ND	0.5	"	n	**	**	н	ď	
Trichlorofluoromethane	ND	0.5	**	14	"	"	п	п	
1,1-Dichloroethene	6.6	0.5	"	II .	и	"	н	**	
Methylene chloride	ND	0.5	"	н	n	"	Ħ	**	
Freon 113	ND	0.5	"	н	н	4	н		
trans-1,2-Dichloroethene	ND	0.5	4	N	11	я	н	,	
1,1-Dichloroethane	ND	0.5		н	н	я	н	"	
cis-1,2-Dichloroethene	ND	0.5		н	**	**	н		
Chloroform	0.3	0.1			4	**	н		
1,1,1-Trichloroethane	7.7	0.5	"	п	11	**	н		
Carbon tetrachloride	ND	0.1	**	ч	н	**	Iř		
1,2-Dichloroethane	ND	0.1	**	PP .	н	**	ur .	"	
Benzene	ND	0.1	11	*	H	*	.,	11	
Trichloroethene	29	0.1		**	,,	н	"	*	
Toluene	ND	1.0	n		"	**		n	
1,1,2-Trichloroethane	ND	0.5	h+		*	**	4	*	
Tetrachloroethene	24	0.1	**	*			11	н	
Ethylbenzene	ND	1.0		*		•	11	H	
1,1,1,2-Tetrachloroethane	ND	0.5					и	,	
m,p-Xylene	ND	1.0			"		н	,	
o-Xylene	ND	1.0			"	•	н	U	
1,1,2,2-Tetrachloroethane	ND ND	0.5		4	н	11	n		
Surrogate: Dibromofluoromethane		105 %	75-12	5	"		n	"	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	75-12	5	#	,,	"	"	
Surrogate: Toluene-d8		88.8 %	75-12	5	**	,,	"	"	
Surrogate: 4-Bromofluorobenzene		96.4 %	75-12	5	u	ø	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW3-15, P102.9L (E710067-17) Vapor	Sampled: 18-Oct-07	Received: 18	-Oct-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		"	"	•		"	
Vinyl chloride	ND	0.1	н		"	4		ď	
Chloroethane	ND	0.5	и	"	4	ч		4	
Trichlorofluoromethane	ND	0.5	ч		4	4	*	u	
1,1-Dichloroethene	74	0.5			•	•	*	u	
Methylene chloride	ND	0.5		"	"		"	*	
Freon 113	ND	0.5	"	"		"	"	»	
trans-1,2-Dichloroethene	ND	0.5	"	"	"	"	"	"	
1,1-Dichloroethane	3.5	0.5	v	Ħ	н		н	"	
cis-1,2-Dichloroethene	3.2	0.5	**	н	н	R	n .	M	
Chloroform	2.0	0.1	н	**		н	н	*	
1,1,1-Trichloroethane	29	0.5	н	4	н	н	н	н	
Carbon tetrachloride	ND	0.1	н	"	н	*	**	н	
1,2-Dichloroethane	0.7	0.1	н	м	14	н	**	н	
Benzene	0.2	0.1	н		4	н	"	*	
Trichloroethene	140	0.1	"		"		"	"	
Toluene	ND	1.0	a	,	4	*			
1,1,2-Trichloroethane	ND	0.5		"			"		
Tetrachloroethene	240	1.0		0.5			.,	u	
Ethylbenzene	ND	1.0	.,	0 05	*	"	"		
1,1,1,2-Tetrachloroethane	ND	0.5	*	17	"	"	"	•	
m,p-Xylene	ND	1.0	*	"		**	н	*	
o-Xylene	ND	1.0	н	ч	h	н	n	•	
1,1,2,2-Tetrachloroethane	ND	0.5	14		н	н	И	•	
Surrogate: Dibromofluoromethane		106 %	7.	5-125	"	,,	"	11	
Surrogate: 1,2-Dichloroethane-d4		96.4 %	7.	5-125	"	**	,,	"	
Surrogate: Toluene-d8		920%	7.	5-125	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		95.2 %		5-125		u	,,	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Note
VEW3-25, P146.2L (E710067-18) Vapor	Sampled: 18-Oct-07	Received: 18	-Oct-07		_				
1,1-Difluoroethane (LCC)	ND	10	ug/I	0 05	EJ71803	18-Oct-07	18-Oct-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	*		*	"	*	"	
Vinyl chloride	ND	0.1	**		н	•	*	"	
Chloroethane	ND	0.5	**		н	"	н	"	
Trichlorofluoromethane	ND	0.5	**	"	н	•	н	"	
1,1-Dichloroethene	83	0.5	**	"	li .	"	н	D	
Methylene chloride	ND	0.5	"	"	н	"	n	v	
Freon 113	ND	0.5	"	"	"	"	*	**	
trans-1,2-Dichloroethene	ND	0.5	"	4	"	ď	М	**	
1,1-Dichloroethane	3.6	0.5	ч	,,	11	ø	r	*	
cis-1,2-Dichloroethene	3.5	0.5	"	*	н	ч	н	*	
Chloroform	1.9	0.1	•	n	*	"	н	*	
1,1,1-Trichloroethane	26	0.5	"	,	н	4	n	н	
Carbon tetrachloride	ND	0.1	"	н	"	"	n	Ħ	
1,2-Dichloroethane	1.0	0.1	я	"	"	*	H	*	
Benzene	0.1	0.1	**	"	*	11	#I	"	
Trichloroethene	120	0.1	"	"	н	*	н	n	
Toluene	ND	1.0	"		H	*	*	,	
1,1,2-Trichtoroethane	ND	0.5	н	"	*	н	"		
Tetrachloroethene	210	1.0	rı	0.5	*	н	"	u	
Ethylbenzene	ND	1.0	rr	0.05	*	н	"	*	
1,1,1,2-Tetrachloroethane	ND	0.5	,,	"	,	н	"	**	
m,p-Xylene	ND	1.0	"	**		"	"	*	
o-Xylene	ND	1.0	*	**	•	"	ď	*	
1,1,2,2-Tetrachloroethane	ND	0.5			н		**		
Surrogate: Dibromofluoromethane		102 %	75-	125	,,	,,	"	"	
Surrogate: 1,2-Dichloroethane-d4		97.2 %	75-	125	"	,,	"	,,	
Surrogate: Toluene-d8		91.6%	75-		"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.4 %	75-		"	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG101807-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe Reported: 25-Oct-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EJ71803 - EPA 5030										
Blank (EJ71803-BLK1)				Prepared &	Analyzed.	18-Oct-07				
1,1-Diffuoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	н							
Vinyl chloride	ND	0.1								
Chloroethane	ND	0.5	н							
Trichlorofluoromethane	ND	0.5	"							
,1-Dichloroethene	ND	0.5	"							
Methylene chloride	ND	0.5								
Freon 113	, ND	0.5								
trans-1,2-Dichloroethene	ND	0.5	н							
1,1-Dichloroethane	ND	0.5	"							
cis-1,2-Dichloroethene	ND	0.5	"							
Chloroform	ND	0.1	"							
l,1,1-Trichloroethane	ND	0.5	"							
Carbon tetrachloride	ND	0.1	11							
,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1	н							
Trichloroethene	ND	0.1								
Toluen c	ND	1.0	n							
1,1,2-Trichloroethane	ND	0.5	"							
Tetrachloroethene	ND	0.1	"							
Ethylbenzene	ND	1.0	a							
1,1,1,2-Tetrachloroethane	ND	0.5	"							
n,p-Xylene	ND	1.0	"							
o-Xylene	ND	1.0	39							
1,1,2,2-Tetrachloroethane	ND	0.5	" —— -——				<u> </u>			
Surrogate: Dibromofluoromethane	2.46		,,	2.50		98.4	75-125			
Surrogate: 1,2-Dichloroethane-d4	2 32		"	2 50		92.8	75-125			
Surrogate: Toluene-d8	2.30		,,	2.50		92.0	75-125			
Surrogate: 4-Bromofluorobenzene	2.43		н	2.50		97.2	75-125			



Project: TRG101807-SB1

520 West 1st Street Tustin, CA 92780

Project Number: 7115 Phase 250

Project Manager: Ms. Christa Wolfe

Reported: 25-Oct-07

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Holding Times: Holding times are carefully monitored by H&P MOBILE GEOCHEMISTRY (H&P) since this is a vital part of quality control procedures H&P will make every effort to perform analysis within the applicable holding times established by the EPA or equivalent methodology. However, samples and sample integrity are ultimately the responsibility of the client. H&P reserves the right to apply rush analysis surcharges to prices in order to meet holding time constraints.

Sample Archiving: H&P retains all samples received for a period of one month, including samples designated as "hold". Upon specific written request of the client, samples may be held for a defined period beyond one month. H&P reserves the right to charge for the extended holding of samples.

Hazardous Samples: Hazardous or difficult to dispose samples may be returned to the client. All samples received by H&P are subject to a per sample disposal fee.

Reporting Results: Analyses are reported in wet weight values. Dry weight values may be obtained when moisture content analysis is performed at an additional cost.

Payment Terms: Standard credit terms are net 30 days, and are independent of when clients are compensated. H&P reserves the right to require payment in advance until a credit application has been approved. Credit limits may at any time be increased or decreased, based upon payment history. Accounts over 30 days are subject to 1.5% per month interest (18% per annum). Delinquent accounts are liable for legal costs and fees incurred by H&P in its efforts to collect outstanding balances.

Sample Collection: H&P does not accept any liability with regard to the collection, preservation technique, or transportation method of samples by clients.

Limit of Liability: H&P strives to perform all services in accordance with the local standard of care in the geographic region at the time the services are rendered. Clients should recognize that all samples and sampling events are unique, and that not all samples can be successfully analyzed by generally accepted methods. If analysis proves unsuccessful, the total liability of H&P shall not exceed three times the invoiced amount for the services provided. This limit of liability shall supercede all clauses to the contrary, implied or otherwise, in any client purchase order or contract, unless different terms are authorized in advanced in writing by an officer of H&P.



14 November 2007

Ms. Christa Wolfe The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780

RE: TRG110707-SB1

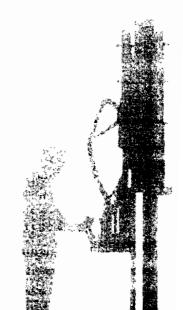
Enclosed are the results of analyses for samples received by the laboratory on 07-Nov-07. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal

Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.





520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VEW6-5, P48.9L	E711030-01	Vapor	07-Nov-07	07-Noy-07
VEW6-15, P92 1L	E711030-02	Vapor	07-Nov-07	07-Nov-07
VEW6-25, P135.4L	E711030-03	Vapor	07-Nov-07	07-Nov-07
VEW4-5, P45.4L	E711030-04	Vapor	07-Nov-07	07-Nov-07
VEW4-15, P88.7L	E711030-05	Vapor	07-Nov-07	07-Nov-07
VEW4-15DUP, P88.7L	E711030-06	Vapor	07-Nov-07	07-Nov-07
VEW4-25, P131.9L	E711030-07	Vapor	07-Nov-07	07-Nov-07
PW1-5, P21.6L	E711030-08	Vарог	07-Nov-07	07-Nov-07
PW1-15, P64 9L	E711030-09	Vapor	07-Nov-07	07-Nov-07
PW1-25, P108.2L	E711030-10	Vapor	07-Nov-07	07-Nov-07
PW1-60, P259.6L	E711030-11	Vapor	07-Nov-07	07-Nov-07



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-5, P48.9L (E711030-01) Vapor	Sampled: 07-Nov-07	Received: 07-1	Nov-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	*		н	d	*	*	
Vinyl chloride	ND	0.1		н	"	*	**	a	
Chloroethane	ND	0.5	н	"	*1	"		n	
Trichlorofluoromethane	ND	0.5	4		н		•	**	
1,1-Dichloroethene	ND	0.5	Ħ		"	H	"		
Methylene chloride	ND	0.5	я	"	"		"	п	
Freon 113	ND	0.5	R		"				
trans-1,2-Dichloroethene	ND	0.5	я	"	,,	,,		*	
1,1-Dichloroethane	ND	0.5	P	*	н	b	**	u	
cis-1,2-Dichloroethene	ND	0.5	н		**	4		*	
Chloroform	ND	0.1			"		н	"	
1,1,1-Trichloroethane	ND	0.5	н	н	4	ш	"	"	
Carbon tetrachloride	ND	0.1		*	*	*	•	*	
1,2-Dichloroethane	ND	0.1		**	*	**	н	"	
Benzene	ND	0.1	н	"	*	I)	11	"	
Trichloroethene	3.1	0.1	,	*	н	4	*	,	
Toluene	ND	1.0		n	11	ı)	и	"	
1,1,2-Trichloroethane	ND	0.5	н		*	н	ч	"	
Tetrachloroethene	3.7	0.1	•		*			н	
Ethylbenzene	ND	1.0	*	H	*	"	*	а	
1,1,1,2-Tetrachloroethane	ND	0.5	и	"	*	**	"	u	
m,p-Xylene	ND	1.0	м		н	**	**	*	
o-Xylene	ND	1.0		"	14	n	*	4	
1,1,2,2-Tetrachloroethane	ND	0.5	н			*	,		
		25.251		.26	,	,,	4	,,	
Surrogate: Dibromofluoromethane		95.2 %		125	,,	,,		,,	
Surrogate: 1,2-Dichloroethane-d4		99.2 %	75-		,,	"	,,		
Surrogate: Toluene-d8		95.6 %		125	,	"			
Surrogate: 4-Bromofluorobenzene		102 %	75-	125	"	"	*	"	



520 West 1st Street

Tustin, CA 92780

Project: TRG110707-SB1

Project Number: 7115 Phase 250

Project Manager. Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-15, P92.1L (E711030-02) Vapor	Sampled: 07-Nov-07	Received: 07-	Nov-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	н	•	"	"		"	
Vinyl chloride	ND	0.1	"	н	**	"	н	ч	
Chloroethane	ND	0.5	н	"	"	4	•		
Trichlorofluoromethane	ND	0.5		н	**	"	*	n	
1,1-Dichloroethene	17	0.5	н		14	"	4	ď	
Methylene chloride	ND	0.5	*	н	"	"	*	•	
Freon 113	ND	0.5	"	,		4			
trans-1,2-Dichloroethene	ND	0.5	н	и	н	н		я	
1,1-Dichloroethane	2.3	0.5	•		,,			"	
cis-1,2-Dichloroethene	0.6	0.5	н		14	11	"	u	
Chloroform	1.9	0.1		н	•	"	*	*	
1,1,1-Trichloroethane	7.3	0.5	"	,	•	**			
Carbon tetrachloride	ND	0.1	**	"	*	*	н	**	
1,2-Dichloroethane	1.4	0.1	"	н		4		n	
Benzene	ND	0.1		"	n	n	**	**	
Trichloroethene	110	0.1	u	H			×	*	
Toluene	ND	1.0	н					"	
1,1,2-Trichloroethane	2.7	0.5		н		"	н .	4	
Tetrachloroethene	110	0.1	14			4		H	
Ethylbenzene	ND	1.0	"	**	н	*			
1,1,1,2-Tetrachloroethane	ND	0.5					"	*	
m,p-Xylene	ND	1.0	"	"		•		"	
o-Xylene	ND	1.0	u	*		*	**	u	
1,1,2,2-Tetrachloroethane	ND	0.5	н		"	**	11	ii	
C . D'. C				125				,	
Surrogate: Dibromofluoromethane		112 %		125		,,		,,	
Surrogate: 1,2-Dichloroethane-d4		123 %		125	,,	,,	"	,	
Surrogate: Toluene-d8		105 %		125	,,	"	,,	,,	
Surrogate: 4-Bromofluorobenzene		104 %	75-	125	"	"	"	"	



520 West 1st Street

Tustin, CA 92780

Project: TRG110707-SB1

Project Number: 7115 Phase 250

Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW6-25, P135.4L (E711030-03) Vapor	Sampled: 07-Nov-07	Received: 07-	-Nov-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	*	**		*		"	
Vinyl chloride	ND	0.1	н	"	4	"	,,	**	
Chloroethane	ND	0.5	Ħ	**	"	a	*	•	
Trichlorofluoromethane	ND	0.5	"	n		ч	**	н	
1,1-Dichloroethene	250	5.0	"	0.5		4	н	*	
Methylene chloride	ND	0.5	"	0.05	•	"	я	**	
Freon 113	2.9	0.5	**	"	•	"		я	
trans-1,2-Dichloroethene	ND	0.5	*	n	•	,	**	"	
1,1-Dichloroethane	12	0.5	**	P	•	,	4	*	
cis-1,2-Dichloroethene	2.5	0 5	•	*	,	U	*	*	
Chloroform	7.3	0.1	•	No.		*	*		
1,1,1-Trichloroethane	43	0.5		p	"	,,			
Carbon tetrachloride	ND	0.1	4	н	**	AP .	14	"	
1,2-Dichloroethane	13	0.1	•	M	м	N	14		
Веплепе	0.2	0.1	•	ы	н	H	"		
Trichloroethene	370	1.0	•	0 5	н	н	ч	II .	
Toluene	ND	1.0		0.05	n	н		v	
1,1,2-Trichloroethane	6.7	0.5			н	н	"	и	
Tetrachloroethene	320	1.0	**	0.5	н	н	•	•	
Ethylbenzene	ND	1.0	**	0.05	4	и	v		
1,1,1,2-Tetrachloroethane	ND	0.5			н				
m,p-Xylene	ND	1.0			н	н			
o-Xylene	ND	1.0		"	*	**			
1,1,2,2-Tetrachloroethane	ND	0.5						,	
Surrogate: Dibromosluoromethane		116%	75-	125	n	н	"	,,	
Surrogate: 1,2-Dichloroethane-d4		119%	75-	125	"	ır	p	"	
Surrogate: Toluene-d8		102 %	75-	125	"	"	"	н	
Surrogate: 4-Bromosluorobenzene		105 %	75-	125	,,	"	*	**	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number. 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-5, P45.4L (E711030-04) Vapor	Sampled: 07-Nov-07	Received: 07-N	Nov-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	•				4		
Vinyl chloride	ND	0.1	н	,	н	"	н	*	
Chloroethane	ND	0.5	a		"	"	ь		
Trichlorofluoromethane	ND	0.5	н	"	н	"	н	н	
1,1-Dichloroethene	1.7	0.5	4		"		•	•	
Methylene chloride	ND	0.5	*	,	н	**	*	n	
Freon 113	ND	0.5	4	"	•	U	*	ч	
trans-1,2-Dichloroethene	ND	0.5	"	"	n	**	н	"	
1,1-Dichloroethane	ND	0.5	ч		a	"	4	44	
cis-1,2-Dichloroethene	ND	0.5	7	*	,	**	*	,,	
Chloroform	ND	0.1				*		4	
1,1,1-Trichloroethane	ND	0.5	н	"	н	"	•	»	
Carbon tetrachloride	ND	0.1		u		n		**	
1,2-Dichloroethane	ND	0.1	-	n	н		*	*	
Benzene	ND	0.1				*			
Trichloroethene	17	0.1	н	н		•	*	*	
Toluene	ND	1.0			,,	•			
1,1,2-Trichloroethane	ND	0.5	и	н	**	•	-	4	
Tetrachloroethene	21	0.1	**	"	*	*	**	n	
Ethylbenzene	ND	1.0	•	•				n	
1,1,1,2-Tetrachloroethane	ND	0.5	rl	**	н	"	**	*	
m,p-Xylene	ND	1.0	•	"		*		u	
o-Xylene	ND	1.0	•	D	**		99		
1,1,2,2-Tetrachloroethane	ND_	0.5					п		
Surrogate: Dibromofluoromethane		113 %	75-	125	,,	"	"	n	
Surrogate: 1,2-Dichloroethane-d4		124 %	75-	125	n	"	,,	"	
Surrogate: Toluene-d8		104 %	75-	125	"	,,	"	*	
Surrogate: 4-Bromosluorobenzene		107 %	75-	125	*	"	н	**	



520 West 1st Street

Tustin, CA 92780

Project: TRG110707-SB1

Project Number: 7115 Phase 250

Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

		B		73'1 - 1					
Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-15, P88.7L (E711030-05) Vapor	Sampled: 07-Nov-07	Received: 07-N	Nov-07		_				_
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	*	•	*	**	*	"	
Vinyl chloride	ND	0.1	н	*		,,		"	
Chloroethane	ND	0.5	•	11	II	п	н	"	
Trichlorofluoromethane	ND	0.5	*			"	•	**	
1,1-Dichloroethene	86	0.5	11	"	**	"	н		
Methylene chloride	ND	0.5	v	14	"	"	"	"	
Freon 113	1.9	0.5	н	ь				н	
trans-1,2-Dichloroethene	ND	0.5	,,	н	**	*	*	u	
1,1-Dichloroethane	2.0	0.5	*	•	**	**	"	*	
eis-1,2-Dichloroethene	1.0	0.5	п	*	*		**	"	
Chloroform	1.2	0.1	4	11	н	н	н	"	
1,1,1-Trichloroethane	5.8	0.5	н	**				"	
Carbon tetrachloride	ND	0.1	**	н	*	×	**	4	
1,2-Dichloroethane	ND	0.1	"	44	**	11	41	**	
Benzene	0.2	0.1	н	**	•		u	n	
Trichloroethene	150	1.0		0.5	**	*	**	44	
Toluene	ND	1.0		0 05	n	μ			
1,1,2-Trichioroethane	ND	0.5	н		"	"	u	*	
Tetrachloroethene	380	1.0	"	0.5		,,		**	
Ethylbenzene	ND	1.0		0 05	"	*	*		
1,1,1,2-Tetrachloroethane	ND	0.5	ıt		"	"	"	#	
m,p-Xylene	ND	1.0	41	н		p			
o-Xylene	ND	1.0		14	"	n	*		
1,1,2,2-Tetrachloroethane	ND	0.5				и			
Surrogate: Dibromofluoromethane		110%	75	-125	"	,,	"	n	
Surrogate: 1,2-Dichloroethane-d4		125 %	75	-125	"	"	"	"	
Surrogate: Toluene-d8		101 %	75	-125	a	"	"	"	
Surrogate: 4-Bromofluorobenzene		100 %		-125	**	n	**	B	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250

Project Manager; Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	teporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-15DUP, P88.7L (E711030-06) Vapor	Sampled: 07-Nov-07	Received	1: 07-Nov-	07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifiuoromethane	ND	0.5		"	н	"	"	"	
Vinyl chloride	ND	0.1	*	и	"	**	"	*	
Chloroethane	ND	0.5		u	н		"	ч	
Trichlorofluoromethane	ND	0.5	н	п	u	n	#	,,	
1,1-Dichloroethene	73	0.5	**	u	**	"		я	
Methylene chloride	ND	0.5	n	"	41	n	"		
Freon 113	1.5	0.5	н		*	**	4	**	
trans-1,2-Dichloroethene	ND	0.5	,,	"	11	"	"	"	
1,1-Dichloroethane	1.6	0.5	и	u	,,	**		#	
cis-1,2-Dichloroethene	0.9	0.5	"	n	u	II .	"		
Chloroform	0.9	0.1		**	**	**		*	
1,1,1-Trichloroethane	4.7	0.5		**		н	*		
Carbon tetrachloride	ND	0.1	н	и	>>	п	"	*	
1,2-Dichloroethane	ND	0.1	v	*	14		,		
Benzene	0.2	0.1	п	н	"	11	*	*	
Trichloroethene	140	1.0		0.5	н			4	
Toluene	ND	1.0	н	0.05	*	ч	"	н	
1,1,2-Trichloroethane	ND	0.5		*	*	•			
Tetrachloroethene	360	1.0		0.5	,,	#	#	m	
Ethylbenzene	ND	1.0		0 05		н			
1,1,1,2-Tetrachloroethane	ND	0.5	н	Į4	"	**	н		
m,p-Xylene	ND	1.0				*			
o-Xylene	ND	1.0	н		*		"		
1,1,2,2-Tetrachloroethane	ND	0.5			**				
Surrogate: Dibromofluoromethane		102 %	75-	125	n	,	,,	и	
Surrogate: 1,2-Dichloroethane-d4		121 %	75-		u	"	"	"	
Surrogate: Toluene-d8		109 %	75-		,,	,,	,,	"	
Surrogate: 4-Bromofluorobenzene		102 %	75-		"	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
VEW4-25, P131.9L (E711030-07) Vapor	Sampled: 07-Nov-07	Received: 07	7-Nov-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		н	4	"	"	π	
Vinyl chloride	ND	0.1	и	и	4	•	"	#	
Chloroethane	ND	0.5	74	и		•	•	н	
Trichlorofluoromethane	ND	0.5	•	"	"	v		44	
1,1-Dichloroethene	160	5.0	•	0.5		n		*	
Methylene chloride	ND	0.5		0 05		ь	ď	*	
Freon 113	2.2	0.5		"		"	•	"	
trans-1,2-Dichloroethene	ND	0.5	*	u	"	*		"	
1,1-Dichloroethane	2.8	0.5	н	n	н	н		"	
cis-1,2-Dichloroethene	1.5	0.5	н	"	H	н	*		
Chloroform	1.5	0.1	н	,	н	11	*		
1,1,1-Trichloroethane	5.8	0.5	н	*	17	"	•	n	
Carbon tetrachloride	ND	0.1	н	*	и	"	,,		
1,2-Dichloroethane	ND	0.1	**	**	H	11	H	"	
Benzene	0.2	0.1	**	n	н	"	w	"	
Trichloroethene	180	1.0	и	0.5	"	"	"		
Toluene	ND	1.0	r	0.05	**	"	•	u u	
1,1,2-Trichloroethane	ND	0.5	н	**	ıf	"	"	u	
Tetrachloroethene	470	1.0	"	0 5	н	н	"	"	
Ethylbenzene	ND	1.0	"	0 05	11	11	•		
1,1,1,2-Tetrachloroethane	ND	0.5	"	*	н	11	**	a	
m,p-Xylene	ND	1.0	n	*	н	#	"	'n	
o-Xylene	ND	1.0	"	P	"	п		a	
1,1,2,2-Tetrachloroethane	NDND	0.5	н	,			"		
Surrogate: Dibromofluoromethane		113 %	75	-125	,,	n.	"	71	
Surrogate: 1,2-Dichloroethane-d4		122 %		-125	"	и	"	n	
Surrogate: Toluene-d8		104 %	75	-125	"	μ	"	,,	
Surrogate: 4-Bromofluorobenzene		104 %		-125	"	"	"	n	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-5, P21.6L (E711030-08) Vapor	Sampled: 07-Nov-07	Received: 07-No	v-07						
1,1-Diffuoroethane (LCC)	ND	10	ug/l	0,05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		•	II	"	,,	н	
Vinyl chloride	ND	0.1		•	,,	"	•	*	
Chloroethane	ND	0.5	"	"		4	*		
Trichlorofluoromethane	ND	0.5	n	н	u	**			
1,1-Dichloroethene	1.1	0.5	*	n	**	"	**	u	
Methylene chloride	ND	0.5	P	"	*			14	
Freon 113	ND	0.5		ч	*	*	"	,,	
trans-1,2-Dichloroethene	ND	0.5	14	"		11	*	*	
1,1-Dichloroethane	ND	0.5	и	n n	"	n	n	11	
cis-1,2-Dichioroethene	ND	0.5	ri	r•	**	n	P	*	
Chloroform	ND	0.1		**				*	
1,1,1-Trichloroethane	ND	0.5	•		H	"	•		
Carbon tetrachloride	ND	0.1	"	"	**	"	•		
1,2-Dichloroethane	ND	0.1	"	**		н	*	"	
Benzene	ND	0.1	н	и	"	"	н	ч	
Trichloroethene	6.1	0.1	н	н	**	,,	*	4	
Toluene	ND	1.0	11	"	н	,,	ь	*	
1,1,2-Trichloroethane	ND	0.5	н	"	ш	и		,	
Tetrachloroethene	31	0.1	*		н	a		,	
Ethylbenzene	ND	1.0		•	,,	"	*		
1,1,1,2-Tetrachloroethane	ND	0.5	n		"	"	11	•	
m,p-Xylene	ND	1.0	u	"	"	*	14	u	
o-Xylene	ND	1.0	"	11	"	n	н	*	
1,1,2,2-Tetrachloroethane	ND	0.5		11	ч		н	**	
Surrogate: Dibromofluoromethane		111%	75-1	25	н	"	"	,,	
Surrogate: 1,2-Dichloroethane-d4		125 %	75-1	25	"	"	,,	"	
Surrogate: Toluene-d8		102 %	75-1	25	"	,,	,,	"	
Surrogate: 4-Bromofluorobenzene		104 %	75-1	25	"	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-15, P64.9L (E711030-09) Vapor	Sampled: 07-Nov-07	Received: 07-N	av-07						
1,1-Difluoroethane (LCC)	ND	10	ug/I	0 05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	"	*	#	4	"	
Vinyl chloride	ND	0.1			"	17	"	"	
Chloroethane	ND	0.5			"	*	"	"	
Trichlorofluoromethane	ND	0.5	"		"	"	"		
1,I-Dichloroethene	ND	0.5	U	D	"	11	"		
Methylene chloride	ND	0.5		н	"		u	"	
Freon 113	ND	0.5	"	н		"	u	"	
trans-1,2-Dichloroethene	ND	0.5	"	•	"	"		"	
1,1-Dichloroethane	ND	0.5	**	14	,,		,,	-	
cis-1,2-Dichloroethene	ND	0.5	н	**	"	"	n	*	
Chloroform	ND	0.1	н	4	**	"	n	*	
1,1,1-Trichloroethane	ND	0.5	н	4	"	"	*	a	
Carbon tetrachloride	ND	0.1	"	11	"		»	"	
1,2-Dichloroethane	ND	0.1	н	11	"	"	"	*	
Benzene	ND	0.1	"	11	"	"	"	н	
Trichloroethene	1.5	0.1	н	14	**	"	H	н ,	
Toluene	ND	1.0	н	н	*		,,	-	
1,1,2-Trichloroethane	ND	0.5	н		,,	"	n	*	
Tetrachloroethene	21	0.1	н	н	"	"	"	r	
Ethylbenzene	ND	1.0	*	и		"	,,	"	
1,1,1,2-Tetrachloroethane	ND	0.5	,	н		"	"	,	
m,p-Xylene	ND	1.0	19	п		"		"	
o-Xylene	ND	1.0	n	н		"	"	"	
1,1,2,2-Tetrachloroethane	ND	0.5	"	**		**		···	
Surrogate: Dibromofluoromethane		111 %		-125	"	"	"	n	
Surrogate: 1,2-Dichloroethane-d4		116 %		-125	"	u	"	n	
Surrogate: Toluene-d8		96.8 %		-125	"	17	"	n	
Surrogate: 4-Bromofluorobenzene		88.8 %	75	-125	"	"	"	n	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-25, P108.2L (E711030-10) Vapor	Sampled: 07-Nov-07	Received: 07-N	ov-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	"	11	н	*	19		
Vinyl chloride	ND	0.1	11		*	*			
Chloroethane	ND	0.5	и	*	*	•	"		
Trichlorofluoromethane	ND	0.5	н	It				a a	
1,1-Dichloroethene	55	0.5	**	**		ď	•	*	
Methylene chloride	ND	0.5	*		а	"	n		
Freon 113	ND	0.5	**	•	"	11	"	"	
trans-1,2-Dichloroethene	ND	0.5			и	н	U		
1,1-Dichloroethane	9.5	0.5	н	4	н	*	u	*	
cis-1,2-Dichloroethene	32	0.5		**	P	*		н	
Chloroform	1.2	0.1	*	14	**	"	•	n	
1,1,1-Trichloroethane	3.8	0.5		н	"	"	"	*	
Carbon tetrachloride	ND	0.1	**	н		u		,,	
1,2-Dichloroethane	ND	0.1	11	ш	,	u	**		
Benzene	0.2	0.1	и	н		и	н	•	
Trichloroethene	140	10	11	5	"	"	н	*	
Toluene	ND	1.0	II .	0 05	"		*	"	
1,1,2-Trichloroethane	0.6	0.5	n	**			*	,	
Tetrachloroethene	4200	10	*	5		"		*	
Ethylbenzene	ND	1.0	11	0 05				•	
1,1,1,2-Tetrachloroethane	ND	0.5	н	n		4	*	-	
m,p-Xylene	ND	1.0	"	**			н	*	
o-Xylene	ND	1.0	n	**	•		н		
1,1,2,2-Tetrachloroethane	ND	0.5	н	,			, , , , , , , , , , , , , , , , , , ,	n	
Surrogate: Dibromofluoromethane		103 %	75-12	•	,,	,,	"	,	
Surrogate: 1,2-Dichloroethane-d4		110 %	75-12	_		,,	"	,,	
Surrogate: Toluene-d8		93.6%	75-12			,,	"	,	
Surrogate: 10iuene-as Surrogate: 4-Bromosluorobenzene		90.8 %	75-12 75-12			,,	,,		
burroguie. 1-Dromojiuorovenzene		7 (7.0 70	/3-12	,					



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW1-60, P259.6L (E711030-11) Vapor	Sampled: 07-Nov-07	Received: 07-	Nov-07	_					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0 05	EK70701	07-Nov-07	07-Nov-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		н	,,	**	"		
Vınyl chloride	ND	0.1		.,	4	Ħ	**	**	
Chloroethane	ND	0.5	"		"	"	**		
Trichlorofluoromethane	ND	0.5	**		*	"	-	*	
1,1-Dichloroethene	39	0.5	н	11		•			
Methylene chloride	ND	0.5	p	н		"		0	
Freon 113	3.9	0.5	"	"	4	n		n	
trans-1,2-Dichloroethene	ND	0.5		,	н		•		
1,1-Dichloroethane	1.1	0.5			ч	,,	**	*	
cis-1,2-Dichloroethene	ND	0.5	11	и	**		н	*	
Chloroform	0.4	0.1	п	11		u		*	
1,1,1-Trichloroethane	5.4	0.5	n	н	"	14		*	
Carbon tetrachloride	ND	0.1		,		*	**	v	
1,2-Dichloroethane	ND	0.1	"		"	*	н	"	
Benzene	0.2	0.1	н	u	,,		*	*	
Trichloroethene	220	1.0	н	0.5		u		"	
Toluene	ND	1.0	н	0 05	**	4	•	•	
1,1,2-Trichloroethane	ND	0.5	,	v	n	*	я	*	
Tetrachloroethene	70	0.1		"	*	"	н	*	
Ethylbenzene	ND	1.0	*	"	,,	"	•	*	
1,1,1,2-Tetrachloroethane	ND	0.5	н	•	4	a			
m,p-Xylene	ND	1.0	D	"	н	*	*	•	
o-Xylene	ND	1.0			н	"		*	
1,1,2,2-Tetrachloroethane	ND_	0.5				"		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Surrogate: Dibromofluoromethane		102 %	75-	125	*	"	"	н	
Surrogate: 1,2-Dichloroethane-d4		119%	75-	125	"	"	"	"	
Surrogate: Toluene-d8		98.0 %	75-	125	"	n	"	,,	
Surrogate: 4-Bromofluorobenzene		100 %	75-	125	"	n	n	n	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1

Project Number: 7115 Phase 250 Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch EK70701 - EPA 5030							
Blank (EK70701-BLK1)				Prepared & Anal	yzed: 07-Nov-0	7	
1,1-Difluoroethane (LCC)	ND	10	ug/l				
Dichlorodifluoromethane	ND	0.5					
Vinyl chloride	ND	0.1	u				
Chloroethane	ND	0.5	w				
Trichlorofluoromethane	ND	0.5					
1,1-Dichloroethene	ND	0.5					
Methylene chloride	ND	0.5	•				
Freon 113	ND	0.5	*				
trans-1,2-Dichloroethene	ND	0.5	"				
I,1-Dichloroethane	ND	0.5	*				
cis-1,2-Dichloroethene	ND	0.5	Ħ				
Chloroform	ND	0.1	н				
1,1,1-Trichloroethane	ND	0.5	н				
Carbon tetrachloride	ND	0.1	11				
1,2-Dichloroethane	ND	0.1	**				
Benzene	ND	0.1	u				
Trichloroethene	ND	0.1	u				
Toluene	ND	1.0					
1,1,2-Trichloroethane	ND	0.5	**				
Tetrachloroethene	ND	0.1	Ħ				
Ethylbenzene	ND	1.0	*				
1,1,1,2-Tetrachloroethane	ND	0.5	н				
m,p-Xylene	ND	1.0	14				
o-Xylene	ND	1.0	я				
1,1,2,2-Tetrachloroethane	ND	0.5	u				
Surrogote: Dibromofluoromethane	2.57		"	2.50	10 3	75-125	
Surrogate: 1,2-Dichloroethane-d4	2.78		"	2 50	111	75-125	
Surrogate: Toluene-d8	2.41		"	2 50	96.4	75-125	
Surrogate: 4-Bromofluorobenzene	2.44		n	2.50	97.6	75-125	



520 West 1st Street Tustin, CA 92780 Project: TRG110707-SB1 Project Number: 7115 Phase 250

Project Manager: Ms. Christa Wolfe

Reported: 14-Nov-07

Notes and Definitions

DET Analyte DETECTED

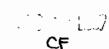
ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

RECEIVED





18 December 2007

Mr. John Cleary The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780

obulling,

RE: TRG121007-SB1

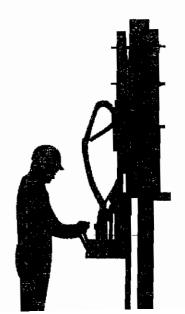
Enclosed are the results of analyses for samples received by the laboratory on 12/10/2007-12/11/2007. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal

Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.





520 West 1st Street Tustin, CA 92780 Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av Project Manager: Mr. John Cleary Reported: 18-Dec-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW3-60, P259L	E712025-01	Vapor	10-Dec-07	10-Dec-07
PW3-25, P108L	E712025-02	Vapor	10-Dec-07	10-Dec-07
PW3-15, P64.9L	E712025-03	Vapor	10-Dec-07	10-Dec-07
PW3-5, P21.6L	E712025-04	Vapor	10-Dec-07	10-Dec-07
PW3-5DUP, P21.6L	E712025-05	Vapor	10-Dec-07	10-Dec-07
PW2-60, P259L	E712025-06	Vapor	10-Dec-07	10-Dec-07
PW2-5, P21.6L	E712033-01	Vapor	11-Dec-07	11-Dec-07
PW2-5DUP, P21.6L	E712033-02	Vapor	11-Dec-07	11-Dec-07
PW2-15, P64.9L	E712033-03	Vapor	11-Dec-07	11-Dec-07
PW2-25, P108L	E712033-04	Vapor	11-Dec-07	11-Dec-07



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520 West 1st Street Tustin, CA 92780 Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Reported:

Project Manager: Mr. John Cleary

18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
<u> </u>		_			Daten		Anaryzou		- 10100
PW3-60, P259L (E712025-01) Vapor	Sampled: 10-Dec-07						_		
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		•	"	11	н		
Vinyl chloride	ND	0.1		11	11	"	*	41	
Chloroethane	ND	0.5	"		M	1(*		
Trichlorofluoromethane	ND	0.5	н	IP	**	"	*	11	
1,1-Dichloroethene	ND	0.5	"	41	N	If	*	14	
Methylene chloride	ND	0.5			"	и	n	lr .	•
Freon 113	ND	0.5	*1	41	*	H	•	*	
trans-1,2-Dichloroethene	ND	0.5	ıı		И	н	n	10	
1,1-Dichloroethane	ND	0.5	н	R	н	н	*	*	
cis-1,2-Dichloroethene	ND	0.5		н	II	11	"	ti	
Chloroform	ND	0.1	a	D	*	*	n	19	
1, 1, 1-Trichloroethane	ND	0.5		н	11	и		11	
Carbon tetrachloride	ND	0.1		a	•		H	4	
1,2-Dichloroethane	ND	0.1	P	н	11)+	tr.	10	
Benzene	0.1	0.1	*	14	*	*	н		
Trichloroethene	ND	0.1		11		te .	u	19	
Toluene	ND	1.0	11	IP	•	*	н	*1	
1,1,2-Trichloroethane	ND	0.5	ee	и			4	н	
Tetrachloroethene	ND	0.1	н	10	*	*	#	*1	
Ethylbenzene	ND	1.0		*			4	H	
1, 1, 1, 2-Tetrachloroethane	ND	0.5	н		**	*	IF	11	
m,p-Xylene	ND	1.0		et	n		и	H	
o-Xylene	ND	1.0	н)*	4)	*	n	R	
1,1,2,2-Tetrachloroethane	ND	0.5			-			n	
Surrogate: Dibromofluoromethane		105 %	75-1	25	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		109 %	75-1	25	"	я	**	"	
Surrogate: Toluene-d8		77.2 %	75-1		"	**	"	"	
Surrogate: 4-Bromofluorobenzene	8	84.4 %	75-1	25	н	,,	#	"	



Project: TRG121007-SB1

520 West 1st Street Tustin, CA 92780 Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

H&P Mobile Geochemistry												
Analyt c	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes			
PW3-25, P108L (E712025-02) Vapor	Sampled: 10-Dec-07	Receiv	ed: 10-De	c-07								
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B				
Dichlorodifluoromethane	ND	0.5	**	11	"		"	"				
Vinyl chloride	ND	0.1	u	•	ır	u	н	P				
Chloroethane	ND	0.5	**	*	H		41	И				
Trichlorofluoromethane	ND	0.5	12		l+	"		в				
1,1-Dichloroethene	1.6	0.5	"	•	11	"	11	И				
Methylene chloride	ND	0.5	P		"	•	11	н				
Freon 113	1.0	0.5	(4	a	•	19	"					
trans-1,2-Dichloroethene	ND	0.5	н	+1	11	*	"	11				
1,1-Dichloroethane	ND	0.5	v	*	•		н	•				
cis-1,2-Dichloroethene	ND	0.5	**	**	*	"	"	14				
Chloroform	ND	0.1		**	*	11		u				
1,1,1-Trichloroethane	ND	0.5		#	*	**	11	n				
Carbon tetrachloride	ND	0.1	н	я	*	*	•1	*				
1,2-Dichloroethane	ND	0.1	•	"	m	11	4	11				
Benzene	0.2	0.1	P	10	*	*	P	11				
Trichloroethene	2.2	0.1	11	19	n		4	*				
Toluene	ND	1.0	17	17	•	11	*	и				
1,1,2-Trichloroethane	ND	0.5	**	71	*	•	n	и				
Tetrachloroethene	17	0.1	4	**	11	11	11	и				
Ethylbenzene	ND	1.0			4	*	19	IF.				
1,1,1,2-Tetrachloroethane	ND	0.5	н	*1			19	H				
m,p-Xylene	ND	1.0	н	*1	17		11	D				
o-Xylene	ND	1.0		16	11	•	*					
1,1,2,2-Tetrachloroethane	ND	0.5	"		<u> </u>							
Surrogate: Dibromofluoromethane	,	99.2 %	75-1	25	,,	"	"	ir .				
Surrogate: 1,2-Dichloroethane-d4		108 %	75-1		"	"	"	W				
Surrogate: Toluene-d8		92.8 %	75-1		"	"	n	#				
Surrogate: 4-Bromofluorobenzene		92.8 %	75-1	25	"	"	"	*				



Project: TRG121007-SB1

520 West 1st Street Tustin, CA 92780 Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-15, P64.9L (E712025-03) Vapor	Sampled: 10-Dec-07	Recei	ved: 10-D	ec-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	16			#	11	н	
Vinyl chloride	ND	0.1	n			11	ıt	*	
Chloroethane .	ND	0.5		ų	•			"	
Trichlorofluoromethane	ND	0.5	**	n	•	н	**	16	
1,1-Dichloroethene	1.9	0.5	11	n	•	*	•	н	
Methylene chloride	ND	0.5	"	11	×	•	'n	н	
Freon 113	2.2	0.5	**	17			*		
trans-1,2-Dichloroethene	ND	0.5	ıt	R	н	**		•	
1,1-Dichloroethane	ND	0.5		P	H	11		. "	
cis-1,2-Dichloroethene	ND	0.5			M	*		*	
Chloroform	ND	0.1	н	•			u	H	
1,1,1-Trichloroethane	ND	0.5	*1		*	P	"		
Carbon tetrachloride	ND	0.1	*1		n		**		
1,2-Dichloroethane	ND	0.1	n				11		
Benzene	0.2	0.1	*1	4		н	11	н	
Trichloroethene	1.0	0.1	*1		•		п	10	
Toluene	ND	1.0	*		•	н	И	и	
1,1,2-Trichloroethane	ND	0.5	**	•			n	H	
Tetrachloroethene	1.4	0.1	н	*	•	*1	#1	H	
Ethylbenzene	ND	1.0	*	"	*	•	H	10	
1,1,1,2-Tetrachloroethane	ND	0.5	#	•		н	"	**	
m,p-Xylene	ND	1.0	и		•	*	п	19	
o-Xylene	ND	1.0	"				•	n	
1,1,2,2-Tetrachloroethane	ND	0.5	"	11	н	н	4	н	
Surrogate: Dibromofluoromethane		109 %	75-	125	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		114%	75-	125	"	"	"	"	
Surrogate: Toluene-d8	!	91.2%	7 5-	125	"	"	"	**	
Surrogate: 4-Bromofluorobenzene	!	94.8%	75-	125	"	"	"	*	



Project: TRG121007-SB1

520 West 1st Street Tustin, CA 92780 Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-15, P64.9L (E712025-03) Vapor	Sampled: 10-Dec-07	Recei	ved: 10-De	c-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		•	*	4	11	и	
Vinyl chloride	ND	0.1	n	н	*	*	If	H	
Chloroethane ,	ND	0.5	н	#1	•	H.	0	**	
Trichlorofluoromethane	ND	0.5	11	łı	*			*1	
1,1-Dichloroethene	1.9	0.5		II.	*	*	9	н	
Methylene chloride	ND	0.5		ıŧ	h	•	19	н	
Freon 113	2.2	0.5				*	н		
trans-1,2-Dichloroethene	ND	0.5	4	4		*	н	н	
1,1-Dichloroethane	ND	0.5		н	н	H	16	H	
cis-1,2-Dichloroethene	ND	0.5	18	ч	*	*		н	
Chloroform	ND	0.1	u	*	**		"	**	
1,1,1-Trichloroethane	ND	0.5	U	4	"	*	"	Ħ	
Carbon tetrachloride	ND ·	0.1	•	4		H	ıı	41	
1,2-Dichloroethane	ND	0.1	и	U			P	H	
Benzene	0.2	0.1	9	g			"	H	
Trichloroethene	1.0	0.1	*	н	•	n	,	н	
Toluene	ND	1.0	и	#	•				
1,1,2-Trichloroethane	ND	0.5	м	н	•		н	e e	
Tetrachloroethene	1,4	0.1	И	P		*1	**	*1	
Ethylbenzene	ND	1.0		14	•	•	4	Į.	
1,1,1,2-Tetrachloroethane	ND	0.5				91	н	,,	
m,p-Xylene	ND	1.0	**			и	14	,	
o-Xylene	ND	1.0	**	U		u	"		
1,1,2,2-Tetrachloroethane	ND	0.5	н	н	H				-
Surrogate: Dibromofluoromethane		109 %	75-12	25	a	"	n	"	
Surrogate: 1,2-Dichloroethane-d4		114%	75-12	25	*	"	*	**	
Surrogate: Toluene-d8	9	21.2 %	75-12	25	"	**	"	"	
Surrogate: 4-Bromofluorobenzene		94.8 %	75-12	25	"	rı	,	**	



Project: TRG121007-SB1

520 West 1st Street Tustin, CA 92780 Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

l		eporting		Dilution	Desert	D1	4 1 4	Markad	Nata
Analyte	Result	Limit	Units	Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-5, P21.6L (E712025-04) Vapor	Sampled: 10-Dec-07	Receive	ed: 10-De	c-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5		II.	II	t t	*	* 1	
Vinyl chloride	ND	0.1	11	41	u	11		•	
Chloroethane	ND	0.5	•			H	p p	12	
Trichlorofluoromethane	ND	0.5	IP	ĸ	4	н		*	
1,1-Dichloroethene	0.6	0.5	*	•		41	*		
Methylene chloride	ND	0.5	H	jt.	н	ei	*		
Freon 113	0.7	0.5	II.	п	ч	11	Ħ	4	
trans-1,2-Dichloroethene	ND	0.5	н	н		**			
1,1-Dichloroethane	ND	0.5	16	46	11	*	19	# '	
cis-1,2-Dichloroethene	ND	0.5	4	**		ч			
Chloroform	ND	0.1	Ц	IP	II-		*	P	
1,1,1-Trichloroethane	ND	0.5	н	**	tt	4	Ņ	н	
Carbon tetrachloride	ND	0.1	19	.,		*		n	
1,2-Dichloroethane	ND	0.1	Iŧ	н	4	11	u	"	
Benzene	0.2	0.1	U	19			н		
Trichloroethene	1.7	0.1	Ħ	Ħ	u	11	4		
Toluene	ND	1.0	ı	H		•	н		
1,1,2-Trichloroethane	ND ·	0.5	и	•	**	4	0	"	
Tetrachloroethene	3.8	0.1	W		n	•		*	
Ethylbenzene	ND	1.0	н	#	**	#	46	11	
1,1,1,2-Tetrachloroethane	ND	0.5		19	n	•	н	19	
m,p-Xylene	ND	1.0	h	**	*1	*	11	н	
o-Xylene	ND	1.0	"	п		•		n	
1,1,2,2-Tetrachloroethane	ND	0.5	н				"	"	
Surrogate: Dibromofluoromethane		106 %	75-1	25	n	ø	п	"	
Surrogate: 1,2-Dichloroethane-d4		115%	75-1		"	"	n	**	
Surrogate: Toluene-d8		98.0 %	75-1	_	n	"	"	n	
Surrogate: 4-Bromofluorobenzene		91.2 %	75-1	-	"		"	"	



520 West 1st Street

Tustin, CA 92780

Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-5, P21.6L (E712025-04) Vapor	Sampled: 10-Dec-07	Receive	ed: 10-Dec	-07					
I,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	11	**	H	"	H	"	
Vinyl chloride	ND	0.1	н	*	**			• [
Chloroethane	ND	0.5	*1	11	"	11		•	
Trichlorofluoromethane	ND	0.5	H.	•	*	"		Ht .	
1,1-Dichloroethene	0.6	0.5	*	•		11	•	" [
Methylene chloride	ND	0.5	P	it	*1	#	n	н i	
Freon 113	0.7	0.5	•	•	Ħ	10	4	u ¦	
trans-1,2-Dichloroethene	ND	0.5	н	*	*1	4	•	" ;	
I, 1-Dichloroethane	ND	0.5	*	*	14	II .	•	•	
cis-1,2-Dichloroethene	ND	0.5	11	и))	#		11	
Chloroform	ND	0.1	и	•	р	D	•		
1,1,1-Trichloroethane	ND	0.5	н	n	U			**	
Carbon tetrachloride	ND	0.1			ir	*	•		
1,2-Dichloroethane	ND	0.1	н		н	*		*	
Вепzепе	0.2	0.1	ur .	*	и	11			
Trichloroethene	1,7	0.1	15	,,	H		4	-	
Toluene	ND	1.0	p	It		#1	u	•	
1,1,2-Trichloroethane	ND .	0.5	(*	•	10	*	u	u u	
Tetrachloroethene	3.8	0.1	н	*	*	#		n	
Ethylbenzene	ND	1.0		*		Ħ	41	e	
1,1,1,2-Tetrachloroethane	ND	0.5	и	H	#		ıı	н	
m,p-Xylene	ND	1.0	tr		11	*	*	n	
o-Xylene	ND	1.0	н	н	н		"	*	
1,1,2,2-Tetrachloroethane	ND	0.5				*			
Surrogate: Dibromofluoromethane		106%	75-12	25	"	"	n	#	
Surrogate: 1,2-Dichloroethane-d4		115%	75-12	?5	#	#	"	**	
Surrogate: Toluene-d8		98.0 %	75-12	25	n	"	"	n	
Surrogate: 4-Bromofluorobenzene		91.2 %	75-12		# `	"	"	*	



520 West 1st Street Tustin, CA 92780 Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe At Reported:
Project Manager: Mr. John Cleary 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW3-5DUP, P21.6L (E712025-05) Vapor	Sampled: 1	0-Dec-07 R	eceived:	10-Dec-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	-
Dichlorodifluoromethane	ND	0.5	*		10	•	b	• :	
Vinyl chloride	ND	0.1	a	н	W	11	+1	•	
Chloroethane	ND	0.5	н		*	•	ıŧ	н	
Trichlorofluoromethane	ND	0.5		**	*	•	"	N	
1,1-Dichloroethene	0.7	0.5	•	*1	H	н	H	"	
Methylene chloride	ND	0.5	и	a	*	91		19	
Freon 113	0.9	0.5	"	•		D	4	• j	
trans-1,2-Dichloroethene	ND	0.5		"	*	n	*	**	
1,1-Dichloroethane	ND	0.5		**			н	• !	
cis-1,2-Dichloroethene	ND	0.5	н	u	10	(I	n	"	
Chloroform	ND	0.1		и	tt	16	*1	19	
1,1,1-Trichloroethane	ND	0.5	•	H	и	ų	и	H	
Carbon tetrachloride	ND	0.1	н	**	*1	**	н	**	
1,2-Dichloroethane	ND	0.1		"	*1	"	"	**	
Benzene	0.1	0.1	**				11	**	
Trichloroethene	1.7	0.1	11	н		4	P	n	
Toluene	ND	1.0	*	n	ų	n	H	મ	
1,1,2-Trichloroethane	ND	0.5	•	и		н	ц	u	
Tetrachloroethene	4.3	0.1		•	н	#1	H		
Ethylbenzene	ND	1.0	*		*1	11	•	u	
1,1,1,2-Tetrachloroethane	ND	0.5	*1	16	н	"	11	•	
m,p-Xylene	ND	1.0	*1	н	*	н	p	*	
o-Xylene	ND	1.0	**	N	и				
1,1,2,2-Tetrachloroethane	ND_	0.5	*	11		,	41	*	
Surrogate: Dibromofluoromethane		106 %	75.	125	.,	,	,,	,,	
Surrogate: 1,2-Dichloroethane-d4		105 %		125	,,	n	"	"	
Surrogate: Toluene-d8		92.4 %		125	"	#	**	"	
Surrogate: 4-Bromofluorobenzene		90.0 %		125	"	,,	"	n	



520 West 1st Street

Tustin, CA 92780

Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte .	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-60, P259L (E712025-06) Vapor	Sampled: 10-Dec-07	Receiv	ed: 10-1	Dec-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71001	10-Dec-07	10-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5			11	*	4	н	
Vinyl chloride	ND	0.1	u		н	II	"	#	
Chloroethane	ND	0.5		4	11		н	"	
Trichlorofluoromethane	ND	0.5	•	u	"	и	н	"	
1,1-Dichloroethene	100	0.5	•		*		*	"	
Methylene chloride	ND	0.5	*	R	ij	"	"	"	
Freon 113	14	0.5	**	11	19	и	и	* }	
trans-1,2-Dichloroethene	ND	0.5	*	н	11	4	и	"	
1,1-Dichloroethane	2.0	0.5		14	u*	**	*	•	
cis-1,2-Dichloroethene	0.8	0.5	D	le .	n	к	"	"	
Chloroform	0.4	0.1		и	*1	11	•	"	
1,1,1-Trichloroethane	4.5	0.5	•	u	u	**		10	
Carbon tetrachloride	ND	0.1	•		н	*	•	н	
1,2-Dichloroethane	ND	0.1	и	,	11	4	"	**	
Benzene	0.7	0.1	*	н	19	**	**	**	
Trichloroethene	370	1.0	41	0.5	**	11	**	10	
Toluene	ND	1.0	*	0.05	ıı	*	"	li .	
1,1,2-Trichloroethane	ND	0.5	и	19	11	W	и	•	
Tetrachloroethene	75	0.1	٠,	•	*1	H.	**	*	
Ethylbenzene	ND	1.0	#	Ħ	*	"	#	*	
1,1,1,2-Tetrachloroethane	ND	0.5	*	u	(t	u	"	4	
m,p-Xylene	ND	1.0		n	If	tt	17		
o-Xylene	ND	1.0	*	и	IF		11	и	
1,1,2,2-Tetrachloroethane	ND_	0.5		н	II		н	4	
Surrogate: Dibromofluoromethane		88.4 %	75	-125	"	**	,,	"	
Surrogate: 1,2-Dichloroethane-d4		95.2 %	, .	-125	"	"	"	#	
Surrogate: Toluene-d8		93.6 %		-125	10	"	n	,,	
Surrogate: 4-Bromofluorobenzene		86.0 %		-125	"	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Reported: 18-Dec-07

Project Manager: Mr. John Cleary

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-5, P21.6L (E712033-01) Vapor	Sampled: 11-Dec-07	Receive	ed: 11-De	c-07					
1,1-Difluoroethane (LCC)	ND	10	ug/i	0.05	EL71101	11-Dec-07	11-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	r	#			+1	*	
Vinyl chloride	ND	0.1	*	п	**	**		" } '	
Chloroethane	ND	0.5		10	п			"	
Trichlorofluoromethane	ND	0.5	u	ti	n	ji .	19	•)	
1,1-Dichloroethene	2.5	0.5		H		н	ħ	•	
Methylene chloride	ND	0.5		•	н	41	н	"	
Freon 113	ND	0.5			ь	N	*1	11	
trans-1,2-Dichloroethene	ND	0.5	Ħ	*	11	p	+		
1,1-Dichloroethane	ND	0.5		4	IP	*	41	п	
cis-1,2-Dichloroethene	ND	0.5	**	**	н	11	II.	9	
Chloroform	ND	0.1	ur .	11		•	"	н	
1,1,1-Trichloroethane	ND	0.5	41	19	*	11			
Carbon tetrachloride	ND	0.1		н	п	*	#	п	
1.2-Dichloroethane	ND	0.1	11	8		н	ıt	10	
Benzene	0.1	0.1	4	•	n	D	u		
Trichloroethene	8.9	0.1	1)	**	*	"		ıı	
Toluene	ND	1.0	It	**	11	*	•	**	
1,1,2-Trichloroethane	ND	0.5	W	14	ь		4	, 11	
Tetrachloroethene	2.0	0.1	и	**	ч	ıt	*		
Ethylbenzene	ND	1.0	**	*	1+	•		a	
1,1,1,2-Tetrachloroethane	ND	0.5	*1		и	и	u		
π,p-Xylene	ND	1.0	и	IF	19.	•	u	**	
o-Xylene	ND	1.0	я	17	н	11			
1,1,2,2-Tetrachloroethane	ND	0.5		"	н		H	11	
Surrogate: Dibromofluoromethane		90.0 %	75-1	25	**	"	,,	н	
Surrogate: 1,2-Dichloroethane-d4		100 %	75-1		"	*	"	"	
Surrogate: Toluene-d8		103 %	75-1	25	#	"	"	"	
Surrogate: 4-Bromofluorobenzene		90.4 %	75-1		**	**	#	#	



520 West 1st Street Tustin, CA 92780 Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit		Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-5DUP, P21.6L (E712033-02) Vapor	Sampled	11-Dec-07 F	Received:	11-Dec-07	_				_
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71101	11-Dec-07	II-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5			٠	*	•	* .	
Vinyl chloride	ND	0.1	"	н		II .	"	•	
Chloroethane	ND	0.5	*	ıt	11	н	**		
Trichlorofluoromethane	ND	0.5		**	*	**	"	•	
1,1-Dichloroethene	2.5	0.5	*1		u	Ħ	29	**	
Methylene chloride	ND	0.5	H	*1	91		11	4	
Freon 113	ND	0.5	н	9	•	Ħ	•		
trans-1,2-Dichloroethene	ND	0.5	n	n	H	*	•		
1,1-Dichloroethane	ND	0.5	10	"		#	•		
cis-1,2-Dichloroethene	ND	0.5	11	16	н	н	н		
Chloroform	ND	0.1	19	η	H	Ħ	19		
1,1,1-Trichloroethane	ND	0.5	п	4	*	#	*		
Carbon tetrachloride	ND	0.1	w	11	н	*	u	at the state of th	
1,2-Dichloroethane	ND	0.1	"	н	•	"	11		
Benzene	ND	0.1	11	ur .	10	lf .	*	н	
Trichloroethene	7.2	0,1	u	R	H	e	*	•	
Toluene	ND	1.0	н	19	н	н	Ħ	Ħ	
1,1,2-Trichloroethane	ND	0.5	*	•			"		
Tetrachloroethene	1.5	0.1		*1	*	4	•	•	
Ethylbenzene	ND	1.0)1	"		U	н	u	
1,1,1,2-Tetrachloroethane	ND	0.5	*	ц	*	и	ч	p	
m,p-Xylene	ND	1.0	и	H	•		н	•	
o-Xylene	ND	1.0	*1	. "	h		ų	u	
1,1,2,2-Tetrachloroethane	ND	0.5	"	#					
Surrogate: Dibromofluoromethane		108 %	75-	-125	"	#	"	#	
Surrogate: 1,2-Dichloroethane-d4		111 %		-125	,,	*	H	*	
Surrogate: Toluene-d8		97.2 %		-125	n	"	**	*	
Surrogate: 4-Bromofluorobenzene		88.4 %		-125	,,	и	"	#	



520 West 1st Street Tustin, CA 92780 Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Reported:

Project Manager: Mr. John Cleary

18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

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Analyte	Re _{Sult}	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Note
PW2-15, P64.9L (E712033-03) Vapor	Sampled: 11-Dec-07	Recei	ved: 11-D	ec-07					
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71101	11-Dec-07	11-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	11		•	*	*		
Vinyl chloride	ND	0.1	11	"	•	•	*		
Chloroethane	ND	0.5	41	1)			*	" .	
Trichlorofluoromethane	ND	0.5	11	ч	•		10	н	
1,1-Dichloroethene	6.2	0.5	4	ч	•	*	11		
Methylene chloride	ND	0.5	11	•	•	,			
Freon 113	1.4	0.5	H	*	•				
trans-1,2-Dichloroethene	ND	0.5	H	**	•	ų		w 1	
1,1-Dichloroethane	ND	0.5		ď	•			"	
cis-1,2-Dichloroethene	1.1	0.5			•			и :	
Chloroform	ND	0.1	н		•		*1	U	
1,1,1-Trichloroethane	ND	0.5	4	"		4	"	**	
Carbon tetrachloride	ND	0.1	n	"	b	**	**	n .	
1,2-Dichloroethane	ND	0.1				*1	ч	н	
Benzene	0.1	0.1				"	н		
Trichloroethene	12	0.1		*		•	**	*	
Toluene	ND	1.0	*	11				41	
1,1,2-Trichloroethane	ND	0.5	IP	ır					
Tetrachloroethene	6.2	0.1	*	*	•		H		
Ethylbenzene	ND	1.0	11				"		
1,1,1,2-Tetrachloroethane	ND	0.5					•		
m,p-Xylene	ND	1.0				11	"	R	
o-Xylene	ND	1.0	16	¥	*			н	
1,1,2,2-Tetrachloroethane	ND ND	0.5			*		11	tr .	
Surrogate: Dibromofluoromethane		104%	75-	125	,,	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		111%	75-		"	**	u	"	
Surrogate: Toluene-d8		2.4 %	75-	_	"	"	"	"	
Surrogate: 4-Bromofluorobenzene	8	6.4%	75-	125	"	,,	"	*	



520 West 1st Street Tustin, CA 92780 Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-25, P108L (E712033-04) Vapor	Sampled: 11-Dec-07	Receiv	ed: 11-De	c-07				• ,	
1,1-Difluoroethane (LCC)	ND	10	ug/l	0.05	EL71101	11-Dec-07	11-Dec-07	EPA 8260B	
Dichlorodifluoromethane	ND	0.5	н	n	*	41	и	ti !	
Vinyl chloride	ND	0.1	н		"	*	•		
Chloroethane	ND	0.5	**)*	11	R		"	
Trichlorofluoromethane	ND	0.5	*1	и	lı	19	и	"	
1,1-Dichloroethene	20	0.5	**	н	**	ti .	"	41	
Methylene chloride	ND	0.5	H .	H	"	и	11	IP .	
Freon 113	1.3	0.5	lt.	*1	"	н	*	4	
trans-1,2-Dichloroethene	ND	0.5	P	11	. 4	u	"	n	
1,1-Dichloroethane	0.6	0.5	Ħ	10	н		**	*1	
cis-1,2-Dichloroethene	5.7	0.5	0	1)	"	et	"	4	
Chloroform	ND	0.1	**		16	*	**	41	
1,1,1-Trichloroethane	ND	0.5	*1	n	u	#	"	*	
Carbon tetrachloride	ND	0.1	н	*	"	и	#	H :	
1,2-Dichloroethane	ND	0.1	"	U	"	н	н	ч ;	
Benzene	0.2	0.1	11	н	"	II	*	H	
Trichloroethene	19	0.1	u	н	11	H	•	. ;	
Toluene	ND	1.0	н	71	н	H	*	9 1	
1,1,2-Trichloroethane	ND	0.5	11	11	н	10	•	•	
Tetrachloroethene	37	0.1	H		10	10	н	•	
Ethylbenzene	ND	1.0		P		н	n	•	
1,1,1,2-Tetrachloroethane	ND	0.5		If	IF.	Ħ	п	•	
m,p-Xylene	ND	1.0	H	14	10	17	n		
o-Xylene	ND	1.0	•		,,	н			
1,1,2,2-Tetrachloroethane	ND ND	0.5		14	<u>"</u>	н			
Surrogate: Dibromofluoromethane		99.6 %	75-1	25	"	ø	n	u	
Surrogate: 1,2-Dichloroethane-d4		106 %	75-1	25	"	*	"		
Surrogate: Toluene-d8		92.0 %	75-1	25	"	**	"	"	
Surrogate: 4-Bromofluorobenzene		90.4%	75-1	25	"	n	"	"	



520 West 1st Street

Tustin, CA 92780

Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Reported:

Project Manager: Mr. John Cleary

18-Dec-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71001 - EPA 5030										
Blank (EL71001-BLK1)				Prepared of	& Analyza	d: 10-Dec	_ :-07			
1,1-Difluoroethane (LCC)	ND	10	ug/i							
Dichlorodifluoromethane	ND	0.5	H							
Vinyl chloride	ND	0.1	к							
Chloroethane	ND	0.5	н							
Trichlorofluoromethane	ND	0.5	*							
1,1-Dichloroethene	ND	0.5	0							
Methylene chloride	ND	0.5	"							
Freon 113	ND	0.5	4							
trans-1,2-Dichloroethene	ND	0.5	*						ļ	
1,1-Dichloroethane	ND	0.5							ļ	
cis-1,2-Dichloroethene	ND	0.5	*							
Chloroform	ND	0.1	*							
I,I,I-Trichloroethane	ND	0.5	*							
Carbon tetrachloride	ND	0.1								
1,2-Dichloroethane	ND	0.1								
Benzene	ND	0.1								
Trichloroethene	ND	0.1	10							
Toluene	ND	1.0								
1,1,2-Trichloroethane	ND	0.5								
Tetrachloroethene	ND	0.1	*							
Ethylbenzene	ND	1.0	*							
1,1,1,2-Tetrachloroethane	ND	0.5	**							
m,p-Xylene	ND	1.0	•							
o-Xylene	ND	1.0	*							
I,1,2,2-Tetrachloroethane	ND	0.5	•							
Surrogate: Dibromofluoromethane	2.45		**	2.50		98.0	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.68		"	2.50		107	75-125			
Surrogate: Toluene-d8	2.33		"	2.50		93.2	75-125			
Surrogate: 4-Bromofluorobenzene	2.05		"	2.50		82.0	75-125			



520 West 1st Street

Tustin, CA 92780

Project: TRG121007-SB1

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Project Manager: Mr. John Cleary

Reported: 18-Dec-07

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71101 - EPA 5030		_								
Blank (EL71101-BLK1)				Prepared	& Analyze	ed: 11-Dec	-07			
I, I-Difluoroethane (LCC)	ND	10	ug/l							
Dichlorodifluoromethane	ND	0.5	u							
Vinyl chloride	ND	0.1	ıı							
Chloroethane	ND	0.5	(*							
Trichlorofluoromethane	ND	0.5	"							
1,1-Dichloroethene	ND	0.5	11							
Methylene chloride	ND	0.5	*1							
Freon 113	ND	0.5	11							
trans-1,2-Dichloroethene	ND	0.5	nt							
1,1-Dichloroethane	ND	0.5	17							
cis-1,2-Dichloroethene	ND	0.5	"						į	
Chloroform	ND	0.1	46						:	
1,1,1-Trichloroethane	ND	0.5	н							
Carbon tetrachloride	ND	0.1	ı,							
,2-Dichloroethane	ND	0.1	"							
Benzene	ND	0.1								
Trichloroethene	ND	0.1	u						'	
Foluene	ND	1.0	41							
1,1,2-Trichloroethane	ND	0.5	+1							
Tetrachloroethene	ND	0.1	*1							
Ethylbenzene	ND	1.0	11							
1,1,1,2-Tetrachloroethane	ND	0.5	и							
m,p-Xylene	ND	1.0	ıı							
o-Xylene	ND	1.0	и							
1,1,2,2-Tetrachloroethane	ND	0.5								
Surrogate: Dibromofluoromethane	2.41		"	2.50		96.4	75-125			
Surrogate: 1,2-Dichloroethane-d4	2.49		"	2.50		99.6	75-125			
Surrogate: Toluene-d8	2.37		"	2.50		94.8	75-125			
Surrogate: 4-Bromofluorobenzene	2.28		"	2.50		91.2	75-125			



Project: TRG121007-SB1

520 West 1st Street Tustin, CA 92780

Project Number: 7115 Phase 250 / 1551 E. Orangethorpe Av

Reported: 18-Dec-07

Project Manager: Mr. John Cleary

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Chain of Custody Record E712025 H&P Project # TRG121007-581 MOBILE - GEOCHEMISTRY Outside Lab: Kennolds Collector: [15 Phase 250 Project Contact: John Cleary E. Orangethorpe Ave., Fullerton 8260B TO-15 EDF: Yes No 11 Sample Receipt $\frac{2}{8}$ Global ID: Seal Intact: ☐ Yes ☐ No ☐ N/A TO-15 Cold: Yes I No ĕ N/A (Received on Site) 3 ☐ diesel Special Instructions: 8260B for BTEX/MTBE Total # of containers DTSC/LARWQCB TPH 🗀 gasoline LCC (specify)_ Naphthalene Gases TPH gas VOC's Notes Sample Container Sample Name Date Type 12:06 12/10/07 Vapor Surings Relinquished by: (Signature) Relinquished by: (Signature)

*Signature constitutes authorization to proceed with analysis and acceptance of condition on back.

Relinquished by: (Signature)

Sample disposal instruction:

Received by: (Signature)

(company)

Disposal @ \$2.00 each

Return to client

(company)

Pickup

rolds Group + 1st Street 4 02780	<u></u>	d, CA 920 akewood,	010 • ph , CA 907	1760.804.96 112 • ph 562	678 • fa: .426.69	x 760.1 991 • fa	B04.9 ax 562	159 2. 4 26	6.699	E7	27	110	l	0	Dutsid	le Lab	o:					
ds-group-Com Pho	ne: [7]	Sample Intact: [Seal Inta Cold: [le Receip Yes tact: Ye	ort No es □ No □ N/. No		☐ diesel ☐ ext				82	2601	m m01-		TO-	-15	111-DFA	8260B TO-15		□ CO2 □ O2 □ N2			
Nøtes Field Point Name	64.9			Type	Type	TPH 🗆	418.1 TRPH	8021 for BTE	BTEX / Oxyg	TPH gas	VOC's	DTSC/LARW	Ketones	Full List	BTEX/MTBE	XXXX ICC (specify	Naphthalene	Methane	Fixed Gases			
b	1	(company)		Received by: (Will.	<u>/_ U</u>		há	vez					(compa	b P		Date 10	VII	100	7 1	me:	07
	2470 Impala Dr. 3825 Industry A YNO Ids Gravy A 4 1st Street A 92780 Wotes Field Point Name	2470 Impala Dr., Carlsbar 3825 Industry Avenue, La Molds Group List Street A 92780 Ms-group-com Phone: L71 Delta Point Name Vol 21.6 21.6 44.9 108	2470 Impala Dr., Carlsbad, CA 928 3825 Industry Avenue, Lakewood, 18 18 18 18 18 18 18 1	2470 Impala Dr., Carlsbad, CA 92010 · ph 3825 Industry Avenue, Lakewood, CA 907 Molds Crivip 4 92780 Sample Receip Intact: Yes Seal Intact: Yes Seal Intact: Yes Ni/A (Received to Ni/A (Received to	2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.96 3825 Industry Avenue, Lakewood, CA 90712 • ph 562. **Molds Group** **Ist Street** **A 92780** **Use Sample Receipt** Intact: Yes No N// Cold: Yes No N// (Received on Site)** **Purge Vol Time Date Type** 21.6	2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fa 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.65 Molds Group	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.8 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 760.8 Grand Property A 92780 Collect Client Location Grand Property Collect Client Location Cold: Yes No N/A Yes No N/	2470 Impala Dr., Carlsbad, CA 92010 • ph 760.804.9678 • fax 760.804.9 3825 Industry Avenue, Lakewood, CA 90712 • ph 562.426.6991 • fax 567 10	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426 426 427	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 401	3825 Industry Avenue, Lakewood, CA 90712 - ph 562.426.6991 - fax 562.426.6995	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159 Effective ph 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E. L. 7 A 92.780 Collector: Dan 1 Collector: D	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159 E41203 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6991 · fax 562.426.6995 E24110 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 Collector:	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159 F412033 H&P 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 F27110 Outside Molds	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159 F412033 HAP Project 3825 Industry Avenue, Lakewood, CA 90712 · ph 562.426.6991 · fax 562.426.6995 F27110 Outside Lab (Molds Grioup Group Grou	2470 Impala Dr., Carlsbad, CA 92010 - ph 760.804.9678 - fax 760.804.9159	2470 Impalia Dr., Carlisbad, CA 92010 - ph 760.804.9678 - fax 760.804.9159	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159	2470 Impala Dr., Carlsbad, CA 92010 · ph 760.804.9678 · fax 760.804.9159



CF

17 December 2007

Mr. John Cleary The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780

RE: TRG121207-12

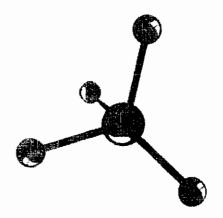
Enclosed are the results of analyses for samples received by the laboratory on 11-Dec-07 . If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Janis Villarreal

Laboratory Director

H&P Mobile Geochemistry operates under CA Environmental Lab Accreditation Program Numbers 1317, 1561, 1667, 1745, 1746, 2088, 2278, 2543, 2579 and 2595.





520 West 1st Street Tustin, CA 92780 Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary Reported: 17-Dec-07

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
PW2-15, P64.9L	E712045-01	Vapor	11-Dec-07	11-Dec-07
Trip Blank	E712045-02	Vapor	11-Dec-07	11-Dec-07



520 West 1st Street Tustin, CA 92780 Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary

Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Note
PW2-15, P64.9L (E712045-01) Vapor	Sampled: 11-Dec-0	7 Rece	ived: I1-D	ec-07				-	
1,1-Difluoroethane (LCC)	ND	10	ug/l	20	EL71403	13-Dec-07	13-Dec-07	EPA TO-15	
Propene	ND	200	ug/m³ Air	•	и				
Dichlorodifluoromethane	ND	200	n	и		и	•	•	
Chloromethane	ND	100	11		11	4	"	*	
Dichlorotetrafluoroethane	ND	200	"	**	"	н		79	
Vinyl chloride	ND	100	n		•	u	**		
1,3-Butadiene	ND	100	JI .	*	11	W	п	u	
Bromomethane	ND	100	t+	ц	8	*1	**	н	
Chloroethane	ND	200		"	×	14		11	
Trichlorofluoromethane	ND	100	If	,		#		It	
Acetone	ND	400	*		и	11	н	H	
1,1-Dichloroethene	3100	100	и	**	и	H*	H		
1,1,2-Trichlorotrifluoroethane	600	200	n	и	u	*		b	
Methylene chloride	ND	100	*1	10	es	и			
Carbon disulfide	ND	100		u		"	u		
trans-1,2-Dichloroethene	ND	100		н	**	и	**	н	
Methyl tert-butyl ether	ND	100	11	*	11	ıı		*	
Vinyl acetate	ND ND	100				н	**		
1,1-Dichloroethane	ND ND	100	11	*	R	н	н		
2-Butanone	ND ND	100				*1		•	
n-Hexane	980	100		*		"	н	R	
			10			и			
cis-1,2-Dichloroethene	250 ND	100	"	в	•	*1	н	*	
Ethyl acetate	ND	100			*			×	
Chloroform	ND	100				*			
Tetrahydrofuran	ND	100	,,		#	n	**	,	
1,1,1-Trichloroethane	120	100	,						
1,2-Dichloroethane	ND	100		"	ч	"		<u> </u>	
Benzene	ND	100			,	 Pr			
Carbon tetrachloride	ND	100	11	"		,, H			
Cyclohexane	ND	100		,		-		-	
n-Heptane	590	100	•	"	Ħ	И			
Trichloroethene	7400	100	×	41	"	*	"	*	
1,2-Dichloropropane	ND	100	4	D	4	11	•	•	
1,4-Dioxane	ND	100	11	11	10	11	"	٠ .	
Bromodichloromethane	ND	100	*	u	4	ļi .	n	*	
cis-1,3-Dichloropropene	ND	100	4	(3	11	H*	н	Ħ	
4-Methyl-2-pentanone	ND	100		ĮI.	н	*1	"	π	
trans-1,3-Dichloropropene	ND	100	91		11		11	#	



520 West 1st Street Tustin, CA 92780

Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15

Analyte	Rey Result	porting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
PW2-15, P64.9L (E712045-01) Vapor	Sampled: 11-Dec-07	Rece	ived: 11-De	ec-07		_			
Toluene	ND	100	ug/m³ Air	20	EL71403	13-Dec-07	13-Dec-07	EPA TO-L5	
1,1,2-Trichloroethane	ND	100	11	н	H	н	*	н	
2-Hexanone	ND	200		17	**	11	*	"	
Dibromochloromethane	ND	100	*	tt	"		•		
Tetrachloroethene	1500	100	u	•	n	*	•	*	
1,2-Dibromoethane (EDB)	ND	100	н	н	n	ı	Ħ		
Chlorobenzene	ND	100	91	**	"	"	**	*	
Ethylbenzene	ND	100	*	91	Ħ	41	•	*	
m,p-Xylene	210	100	**	#	**	*	n	19	
Styrene	ND	100	"	**	н		**	"	
o-Xylene	ND	100	н	н	•	u	11	11	
Bromoform	ND	400	Ħ	It	91	41	11	•	
1,1,2,2-Tetrachloroethane	ND	100	"	10	#	μ			C-07
4-Ethyltoluene	ND	100	"		u	*1	Ħ	и	
1,3,5-Trimethylbenzene	ND	100	**		ir	"	H	II .	
1,2,4-Trimethylbenzene	ND	100	w	0	10	It	•	u	
1,3-Dichlorobenzene	ND	200	**	4	u	н	*		C-07
Benzyl chloride	ND	100	Ħ	D		41	11	"	C-07
1,4-Dichlorobenzene	ND	200	n		D	"	1*	н	C-07
1,2-Dichlorobenzene	ND	200	"	n	u	•	*	IF.	C-07
1,2,4-Trichlorobenzene	ND	200	4	41	ti	*	•		C-07
Hexachlorobutadiene	ND	200	н	•		*	н	*	C-07
Surrogate: 1,2-Dichloroethane-d4		112%	80-1	20	"	"	"	"	
Surrogate: Toluene-d8		101%	80-1	20	••	"	"	•	
Surrogate: 4-Bromofluorobenzene	8	84.1 %	80-1	20	a	"	"	"	



520 West 1st Street Tustin, CA 92780 Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E712045-02) Vapor	Sampled: 11-Dec-07	Received:	11-Dec-07						
1,1-Difluoroethane (LCC)	ND	10	ug/l	1	EL71403	13-Dec-07	13-Dec-07	EPA TO-15	
Propene	ND	10	ug/m³ Air	•	11	"	ų	н	
Dichlorodifluoromethane	ND	10	=	•	•	и		a	
Chloromethane	ND	5.0		*	•		11	•	
Dichlorotetrafluoroethane	ND	10	*			н	11	•	
Vinyl chloride	ND	5.0	*	h	"	0	*1	n	
1,3-Butadiene	ND	5.0	P	н	и	H	•	*	
Bromomethane	ND	5.0	II	*	н	H		R	
Chloroethane	ND	10	н	,,	•	14	lf.	*	
Trichlorofluoromethane	ND	5.0	11	0	ıı		ıt	и !	
Acetone	ND	20	n			11	и	**	
1.1-Dichloroethene	ND	5.0		u		н	и	Ħ	
1,1,2-Trichlorotrifluoroethane	ND	10		N.	11	a	**		
Methylene chloride	ND	5.0	H	11	11	17	"	*	
Carbon disulfide	ND	5.0	4	10	*1	17	v	н	
trans-1,2-Dichloroethene	ND	5.0	я	**	19	p.	16	4	
Methyl tert-butyl ether	ND	5.0		lt.		#	н	#	
Vinyl acetate	ND	5.0	н	н		Ħ	н		
1, 1-Dichloroethane	ND	5.0	н	н '	"	19	**	pt.	
2-Butanone	ND	5.0	н	"	**	10	u	#	
n-Hexane	19	5.0	*	*	11	#	н	4	
cis-1,2-Dichloroethene	ND	5.0		18	18	*1	*1	•	
Ethyl acetate	ND	5.0	n.	1)	10	"	•		
Chloroform	ND	5.0	H.	и	11	n	•	ri .	
Tetrahydrofuran	ND	5.0	ш	11	*	16	It.	*	
1,1,1-Trichloroethane	ND	5.0		w	11	**	и	4	
1,2-Dichloroethane	ND	5.0		II.	"	11	И	•	
Benzene	ND	5.0	0	10	u	п	н		
Carbon tetrachloride	ND	5.0	10	"	ı	**	ø		
Cyclohexane	ND	5.0	п	n	16				
n-Heptane	6.1	5.0		п	*1	H	ц		
Trichloroethene	ND	5.0	11	41	(1	"	п	•	
1,2-Dichloropropane	ND	5.0	#1	n	u	11	н		
1,4-Dioxane	ND	5.0	**	ıt		ıı	н		
Bromodichloromethane	ND	5.0	4			4	4		
cis-1,3-Dichloropropene	ND ND	5.0	п	11	10	*	0		
4-Methyl-2-pentanone	ND	5.0	п	*1	10	**	1(•	
trans-1,3-Dichloropropene	ND ND	5.0		*1	п	10	11		
uans-1,5-Dienoropropene	IAD	J.U							



520 West 1st Street Tustin, CA 92780

Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary

Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15

Analyte	Result	Reporting Limit	Units	Dilution Factor	Batch	Prepared	Analyzed	Method	Notes
Trip Blank (E712045-02) Vapor	Sampled: 11-Dec-07	Received:	11-Dec-07						
Toluene	ND	5.0	ug/m³ Air	1	EL71403	13-Dec-07	13-Dec-07	EPA TO-15	
1,1,2-Trichloroethane	ND	5.0			II .	**	u	я .	
2-Hexanone	ND	10		н	*	16	н		
Dibromochloromethane	ND	5.0		**	*	41	4	• ;	
Tetrachloroethene	ND	5.0	fr	н		N	п		
1,2-Dibromoethane (EDB)	ND	5.0	н		IF.	*1	4	•	
Chlorobenzene	ND	5.0	19	**	•	W	ıt		
Ethylbenzene	ND	5.0	11	н	IP.	H	4	•	
m,p-Xylene	ND	5.0	H	41	#			* ,	
Styrene	ND	5.0	*	u			*	•	
o-Xylene	ND	5.0		4	**	"	"		
Bromoform	ND	20	41	и	11		•	4	
1,1,2,2-Tetrachloroethane	ND	5.0	*	*1	#	19	п	н	C-07
4-Ethyltoluene	ND	5.0	11	ц	ìı	*	*	•	
1,3,5-Trimethylbenzene	ND	5.0	н	**	a	11	le .	*	
1,2,4-Trimethylbenzene	ND	5.0	11		11				
1,3-Dichlorobenzene	ND	10	*	*	u	#	4	**	C-07
Benzyl chloride	ND	5.0		H.	11	ti	ft	u u	C-07
1,4-Dichlorobenzene	ND	10	IF.	u		4	11	**	C-07
1,2-Dichlorobenzene	ND	10		**	17	n	н	**	C-07
1,2,4-Trichlorobenzene	ND	10	IP.	u		#	"	Ħ	C-07
Hexachlorobutadiene	ND	10		н	н			*	C-07
Surrogate: 1,2-Dichloroethane-d4		108 %	80-1	20	,,	"	,,	"	
Surrogate: Toluene-d8		99.5 %	80-1	20	"	"	"	*	
Surrogate: 4-Bromofluorobenzene		86.8 %	80-1	20	H	"	"	n	



520 West 1st Street Tustin, CA 92780 Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary

Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15										
Blank (EL71403-BLK1)				Prepared	& Analyze	ed: 13-Dec	-07			
1,1-Difluoroethane (LCC)	ND	10	ug/l						ļ	
ropene	ND	10	ug/m³ Air							
Dichlorodifluoromethane	ND	10	*1							
Chloromethane	ND	5.0	n							
Dichlorotetrafluoroethane	ND	10	"							
Vinyl chloride	ND	5.0	n							
1,3-Butadiene	ND	5.0	11							
Bromomethane	ND	5.0								
Chloroethane	ND	10	,							
Crichlorofluoromethane	ND	5.0	*							
Acetone	ND	20	**							
,1-Dichloroethene	ND	5.0	В						1	
1,1,2-Trichlorotrifluoroethane	ND	10	11							
Methylene chloride	ND	5.0							'	
Carbon disulfide	ND	5.0	It							
rans-1,2-Dichloroethene	ND	5.0	н							
Methyl tert-butyl ether	ND	5.0	ŧı							
Vinyl acetate	ND	5.0	10							
1,1-Dichloroethane	ND	5.0	**							
2-Butanone	ND	5.0								
-Hexane	ND	5.0	19							
cis-1,2-Dichloroethene	ND	5.0	Ħ							
Ethyl acetale	ND	5.0	и							
Chloroform	ND	5.0	10							
l'etrahydrofuran	ND	5.0	**							
1,1,1-Trichloroethane	ND	5.0	I+							
1,2-Dichloroethane	ND	5.0								
Benzene	ND	5.0	н							
Carbon tetrachloride	ND	5.0	P							
Cyclohexane	ND	5.0	11							
n-Heptane	ND	5.0 5.0	,,							
Frichloroethene	ND	5.0								
1,2-Dichloropropane	ND	5.0 5.0	*1							
1,4-Dioxane	ND	5.0	,							



520 West 1st Street Tustin, CA 92780 Project: TRG121207-12

Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary

Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15									1	
Blank (EL71403-BLK1)				Prepared	& Analyz	ed: 13-Dec	-07			
Bromodichloromethane	ND	5.0	ug/m³ Air							
cis-1,3-Dichloropropene	ND	5.0	11							
4-Methyl-2-pentanone	ND	5.0	11							
trans-1,3-Dichloropropene	ND	5.0	н							
Toluene	ND	5.0	11							
1,1,2-Trichloroethane	ND	5.0							;	
2-Hexanone	ND	10	11							
Dibromochloromethane	ND	5.0	*							
Tetrachloroethene	ND	5.0	IF							
1,2-Dibromoethane (EDB)	ND	5.0	n							
Chlorobenzene	ND	5.0								
Ethylbenzene	ND	5.0	11							
m,p-Xylene	ND	5.0	10							
Styrene	ND	5.0	ù						1	
o-Xylene	ND	5.0	*							
Bromoform	ND	20	н							
1,1,2,2-Tetrachloroethane	ND	5.0	U							C-07
4-Ethyltoluene	ND	5.0	q							
1,3,5-Trimethylbenzene	ND	5.0	11							
1,2,4-Trimethylbenzene	ND	5.0	и							
1,3-Dichlorobenzene	ND	10	D							C-07
Benzyl chloride	ND	5.0	U							C-07
1,4-Dichlorobenzene	ND	10	a						i	C-07
1,2-Dichlorobenzene	ND	10								C-07
1,2,4-Trichlorobenzene	ND	10							i	C-07
Hexachlorobutadiene	ND	10								C-07
Surrogate: 1,2-Dichloroethane-d4	110		n	103		107	80-120			
Surrogate: Toluene-d8	95.4		"	96.2		99.2	80-120			
Surrogate: 4-Bromofluorobenzene	160		"	182		87.9	80-120			



The Reynolds Group - Tustin 520 West 1st Street Tustin, CA 92780 Project: TRG121207-12 Project Number: 7115 Phase 250 Project Manager: Mr. John Cleary

Reported: 17-Dec-07

Volatile Organic Compounds by EPA TO-15 - Quality Control H&P Mobile Geochemistry

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EL71403 - TO-15										
LCS (EL71403-BS1)				Prepared	& Analyze	d; 13-Dec	-07			
Propene	38.9	10	ug/m³ Air	35.0		111	65-135		i	
Dichlorodifluoromethane	116	10	н	101		115	65-135			
Chloromethane	49.5	5.0	ti	42.0		118	65-135			
Dichlorotetrafluoroethane	169	10	1)	142		119	65-135			
Vinyl chloride	61.4	5.0	н	52.0		118	65-135			
1,3-Butadiene	51.4	5.0		44.8		115	65-135			
Bromomethane	93.7	5.0	и	79.2		118	65-135			
Chloroethane	63.1	10		53.6		118	65-135			
Trichlorofluoromethane	133	5.0	И	113		118	65-135			
Acetone	55.2	20	•	48.4		114	65-135			
1,1-Dichloroethene	88.3	5.0	u	80.8		109	65-135			
1,1,2-Trichlorotrifluoroethane	171	10	\$1	155		110	65-135			
Methylene chloride	77.0	5.0	n	70.8		109	65-135			
Carbon disulfide	70.9	5.0	u	63.2		112	65-135			
trans-1,2-Dichloroethene	85.5	5.0	**	80.8		106	65-135			
Methyl tert-butyl ether	84.3	5.0	11	73.6		115	65-135			
Vinyl acetate	82.3	5.0	"	72,0		114	65-13 5			
1,1-Dichloroethane	91.6	5.0	н	82.4		111	65-135			
2-Butanone	69.5	5.0	11	60.0		116	65-135			
n-Hexane	78.9	5.0	n	72.0		110	65-135			
cis-1,2-Dichloroethene	87.0	5.0	н	80.0		10 9	65-135			
Ethyl acetate	80.4	5.0	••	73.6		109	65-13 5			
Chloroform	106	5.0		99.2		107	65-135			
Tetrahydrofuran	66.1	5.0	11	60.0		110	65-135			
1,1,1-Trichloroethane	119	5.0		111		107	65-135			
1,2-Dichloroethane	89.4	5.0	"	82.4		108	65-135			
Benzene	65.3	5.0	м	64.8		101	65-135			
Carbon tetrachloride	138	5.0	,	128		108	65-135			
Cyclohexane	71.6	5.0	*	70 4		102	65-135			
n-Heptane	89.7	5.0		83.6		107	65-135			
Trichloroethene	116	5.0	*	110		105	65-135			
1,2-Dichloropropane	97.2	5.0	*1	94.4		103	65-135			
1,4-Dioxane	75.2	5.0	**	73.6		102	65-135			
Bromodichloromethane	145	5.0	**	137		106	65-135			

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Special tristuctions.	, <u>‡</u> ,			,		gasotine dieac	тярн	1 for BTEXMTBE	X / Oxygenales		OTSCALARWOOD - LOW	Kakones	Ful Liet	B TEXMIBE	LCC (specify) 1,1-064	Naphthelene. 🗆 82609	1 1	Fixed Gases () CO2		j	# of cantainers
Sample Name	Notes Pure Vol		Date	Sample Type	Type		418.1	8021	Y XETE	, SCV	075	X A	P.	87.	ក្ត	de N	Me	Ex.			Total #
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I	HOBILE GEOCHEMIS	/ 2470 impala Dr., (Carispad, CA 9201	Chain of Custody Record CA 92010 - ph 760 804.9678 - fax 760.804 9159 awood, CA 90712 - ph 562.426.6991 - fax 562 426.6695									Dato: 11/07/07 H&P Project # TRC: 110707-581									
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